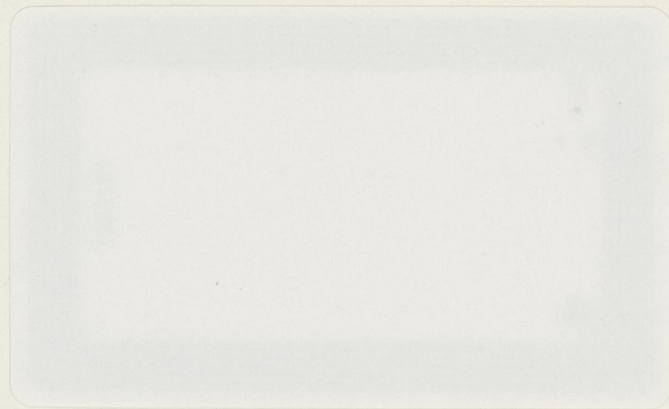


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Vol. 2, No. 2

February, 1948

### ANNUAL MEETING OF THE I. O. A.

On February 8 and 9, the Illinois Optometric Association has scheduled its 40th annual meeting of the organization, to be held at the Morrison Hotel. Dean Takahashi has announced that students will be excused from classes on February 9, 1948, if they attend both the Sunday and Monday meetings.

On Sunday morning, February 8, there will be many items of interest to the Optometry student. There is scheduled a series of exhibits by the optical manufacturers illustrating new trends in their respective lines. Later in the morning Carl F. Shepard, O.D. will speak on Occupational Vision Testing. There will also be a contact lens meeting presided over by Jerome B. Conlogue, O.D. In the afternoon the main lecture of the day will be given by Dr. Matthew Luckiesh, D.Sc., D.E., the world's foremost authority on lighting. At present Dr. Luckiesh is the Director of the Lighting Research of General Electric. The day's business will be closed with an address by Glenn H. Moore, O.D., on "The American Optometric Foundation."

On Monday, February 9, the day's activities will commence with "A Symposium on Optometric Economics." The speaker will be Daniel

Mr. Abram is very happy to announce that one of our former students, Mr. Charles McCafferty, has seen fit to express his high regard for the Chicago College of Optometry by establishing an Annual Award in honor of his beloved mother, Mrs. C.W. McCafferty.

This award will consist of the sum of \$50.00 to be bestowed annually on a graduate of Chicago College of Optometry who will be chosen on the basis of his scholarship and worthiness as well as his ability to serve the profession of optometry.

This is the first such fund to be established at the Chicago College of Optometry and it is hoped that it will set a precedent for similar types of awards to be given in recognition of outstanding scholarship.

Rashall, Executive Secretary of the Public Health Bureau of New York. In the afternoon a talk will be given on "Vision and Reading" by Helen Robinson Ph.D., Director of the University of Chicago Reading Clinics. The concluding talk of the day will be entitled "Mayhem on the Highway" by V.V. Kirby, O.D.

Further details, as to student admission, will be announced in the near future.

### MODERNIZATION PROGRAM UNDER WAY

As one walks through the halls of Chicago College of Optometry, he is impressed with the bustling activity of carpenters, bricklayers, and construction men. All this movement is directed towards streamlining the new institution into one of the outstanding colleges of Optometry in the country. The changes were made to provide adequately for all the departments of the institution and in a very short time each department will be in full operation.

Every floor will have its share of the "new look". The entire fourth floor will be occupied with the laboratories for Physics and Chemistry with a stock room adjoining each laboratory. The Chemistry laboratory will accommodate seventy-two students. The chemistry tables are fully provided with water, gas, electricity and have drawers sufficient to accommodate six sections with individual equipment for each student.

The Physics Laboratory will accommodate forty-eight students for the individual experiments and a twenty-seven foot table along one side of the room has cupboards and drawers for storage of equipment. In addition to the Physics work, the advanced courses in Geometrical and Physical Optics will be taught here. (Cont'd on Pg. 3)



## THE CROSS CYLINDER CHECK TEST for Axis and Amount of the Correcting Cylinder

By Dr. J. B. Gutstein

In the course of the static subjective test considerable effort is expended, and justifiably so, on the determination of the axis and the amount of the correcting cylinder lens for an astigmatic eye.

After the cylinder has been tentatively located by use of the astigmatic clock-dial, while the eye is fogged, the amount of the cylinder is tentatively determined by adding minus cylinders until all the "spokes on the wheel" are equal. When this has been accomplished we are generally instructed to bring the patient down to best visual acuity through maximum plus power and then check the cylinder for axis and amount.

There are, however, sound physical and physiological reasons for stimulating the accommodation 0.25 D. or 0.50 D. before checking the cylinder for axis and amount. One fairly obvious reason for the above rests in the optical nature of the cross-cylinder. If we transpose the cross-cylinder:

+ .50 D.C. x 180

- .50 D.C. x 90

the lens becomes

1. +0.50 D.S.

-1.00 D.C. x 90

2. -0.50 D.S.

+1.00 D.C. x 180

If we have stimulated the accommodation 0.50 D. and are checking for axis we superimpose the cross-cylinder in a position such that the handle is parallel to the tentative axis previously determined.

This places the red dots (the axis of the minus cylinder) 45 degrees to one side of the tentative

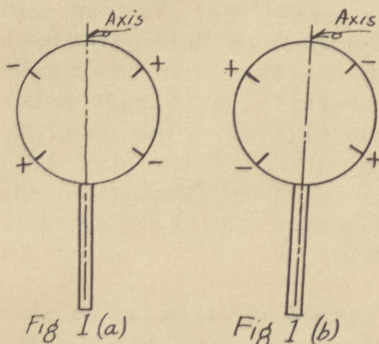
axis of the correcting cylinder (Fig. 1a). When the cross-cylinder is "flipped" through an angle of 180 degrees the red dots will be 45 degrees on the other side of the tentative axis (Fig. 1b). In each case a new cylinder will be created with a resultant axis somewhere between the tentative axis and the red dots of the cross-cylinder. The patient is instructed to look at the Snellen chart at the 20/40 or 20/30 line and is informed that the letters will appear more blurred with the glass (cross-cylinder) in front of the eye, but there will be one position which will be better than the other.

If the patient reports that one position of the cross-cylinder is better than the other, the tentative axis of the correcting cylinder is moved towards the red dots when the cross-cylinder is in the preferred position. It will be noted that the blurredness of the letters is due to the interval of Sturm created on the one hand and the optical nature of the cross-cylinder on the other. Actually the cross-cylinder is effectively a sphero-cylinder and the plus spherical component will tend to blur the letters on the Snellen chart. If we have previously stimulated the accommodation 0.50 D. by

adding -0.50 D.S. (or reducing the plus by -0.50 D.S.) this will compensate for the -0.50 spherical component of the crossed cylinder and the blur induced will be due only to the combination of two minus cylinders crossed obliquely. The patient's indication of his preference of one of the two positions will, very specifically, indicate the necessity of rotating the tentative axis towards the red dots, when the cross-cylinder is in the preferred position. When the patient reports no preference for either position of the cross-cylinder (handle parallel to the tentative axis) we have arrived at the correct axis of the correcting cylinder. Oftimes the patient will report the letters equally blurred.

We are now ready to check for amount. We superimpose the cross-cylinder in front of the correction lens placing the red dots parallel to the axis of the cylinder now determined (Fig. 2a). When the cross cylinder is "flipped" through 180 degrees, the red dots will be at right angles to the axis of the correcting cylinder and the white dots will be parallel thereto (Fig. 2b).

We will not consider the artificial interval of Sturm created. With the red dots parallel to the axis, the cross-cylinder will tend to produce a focus of the vertical (or near vertical) meridian in front of the retina, and horizontal (or near horizontal) meridian behind the retina when the astigmatism is against the rule. The dioptric interval (Continued Pg. 8, Col 1)





## COUNCIL ON PROFESSION ETHICS

Under the leadership of Dr. Mort Kaplow (class December 1947) and nineteen charter members, "The Council for the Advancement of Professional Ethics of the Chicago College of Optometry" was formed.

The purpose of the Council is to foster among the combined student bodies of the Monroe and the Chicago Colleges of Optometry the understanding of, and the desire for, the benefits of professional ethics in the practice of Optometry. Students, thoroughly indoctrinated while undergraduates, will, upon graduation, join the growing legion of ethical practitioners, so that their strength in numbers, and of purpose can place Optometry on the same level as the other confirmed professions.

This Council will also engage in other activities such as: the distribution of literature regarding Optometric Ethics, the presentation of articles on current Optometric affairs through the media of the student bulletin board and the Eyes Right, and will also present lectures by outstanding members of the Optometric profession on subjects relative to Ethics and its applications to the student.

For the present, membership in the Council is limited, according to the Council's newly-elected president, John C. Antonik. The organization will soon be available to all students who possess a sincere desire to work for the ideals and principles of the Council.

A regular feature of the College will be a Review Seminar for State Board Examinations of the State of Illinois.

## EYES RIGHT

Official Undergraduate  
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OF OPTOMETRY**

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## LIBRARY DATA

A new schedule has been announced by the Librarian. The hours of the library are as follows:

Daily-8:30 A.M. - 8:00 P.M.

Saturdays--

10:00 A.M. - 4:00 P.M.

Library Data:

1. A majority of books be taken out for one week and if so desired, they may be renewed.

2. The fine for overdue books is at the rate of five cents per day.

3. Certain reference books which are in great demand cannot be withdrawn but may be used in the library.

4. Students are reminded that the library is a place of study, and that silence is a necessity.

## MODERNIZATION (Continued)

Going to the third floor, rooms 303 and 304 are being transformed into the Biological Sciences department laboratory. Under the chairmanship of Dr. Finkelstein, Zoology, Comparative Anatomy, Physiology, Ocular Anatomy and Neural Anatomy will be taught. Microscopes, plus the newest variety of prepared biological specimens will complete the biological laboratory.

Perhaps many of the students have noticed a new, permanent section that has already been constructed on the first floor. This area will hold two large lecture halls, each having a capacity of 125 students. The lecture hall nearest the administrative offices will be utilized for lectures in Psychology and Sociology. The second lecture hall will be used for demonstration purposes in Geometrical Optics, General Physics and Chemistry. The halls will be divided by a "Modern Fold" fireproof partition which is removable when a large assembly is present for the lectures or demonstrations. Projection facilities are also available for all types of films and slides.

On the same floor is a faculty consultation and work room, where students with appointments may confer with their instructors. Even the basement has not missed a facelifing, for cleanliness facilities are being improved.

It is no doubt that the improvements mentioned above will not only do much to enhance the appearance of Chicago College of Optometry, but will also improve the working efficiency of students and faculty alike.

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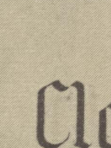
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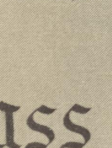
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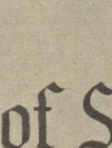
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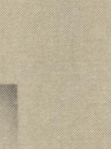
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## Class of December 1947



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# It's Greek To Me

By Louis W. Kooistra

## KAPPA PHI DELTA BANQUET

The Red Room of the North Avenue Y.M.C.A. November 19, was the scene of the second initiation banquet of the Alpha Chapter, Kappa Phi Delta. This national Optometric honor society is composed of sixteen of the highest scholastic graduates from each graduating class. According to the acting National President, Dr. Ernest Takahashi, a very high scholastic record must be maintained by the initiate throughout his entire Optometric education. Among the honorary members of the society are Dr. J.C. Copeland, inventor of the Copeland Streak Retinoscope, and Dr. Newton K. Wesley, president of the American Optometric Center.

Dr. H. Solomon, chapter president, presided over the festivities while Dr. J.M. Kurtz, faculty advisor, addressed the honor society in regards to the purpose of the Society. The honorary speaker and member of the evening, Dr. Newton K. Wesley, was introduced by Mr. M.L. Abram Assistant Director of Monroe College of Optometry.

The following were presented Certificates of Membership by Dr. Takahashi, Dean of Students:

William Alger  
Alfred J. Berger  
Harold N. Bloch  
John J. Boucek  
Eugene T. Burwell  
Harry A. Elson  
Vincent J. Facciana  
Kenneth A. Franks  
Stephen G. Gard, Jr.  
Leonard R. Green  
Myer Grossman  
Christopher Helfrich  
John J. Hulbert  
Moran H. Hupp  
Leonard M. Witkins

## PHI DELTA LAMBDA

The men of Phi Delta Lambda inaugurated their fall-winter season of activities on November 17, with a gala "open house" party held in the fraternity's clubrooms. The entire male student body being invited, an exceptionally large attendance was witnessed. The guest speaker of the event was Dr. Leo J. Sheridan, who gave an arousing address on the benefits of Analytical Optometry to the profession. Charles C. Dunn, Chancellor, presented Dr. Sheridan with an honorary membership and key of the Phi Delta Lambda fraternity. From the passing conversations and expressions a good time was enjoyed by members as well as their guests.

The month of December was highlighted on the 16th by a dinner-banquet held in the Roof-Garden of the New Lawrence Hotel. The honored guests of the evening were the graduating brothers and their wives. The event of the evening was the semi-annual installation of officers.

The newly elected officers of the Phi Delta Lambda include: Chancellor, Roscoe E. Rose, Ind.; Vice-Chancellor, Malcolm Lachman, Hawaii; Secretary, William R. Fugate, Me.; Treasurer, Joseph D. Rainville, N.Y.; Sergeant-at-Arms, Otis E. Payne, Miss; Steward, Erwin Epstein, N.Y.; Chaplain Louis W. Kooistra, Mich.

Norman E. Johnson  
George S. Kaplow  
Mortimer Kaplow  
Hymen L. Kipnis  
Gukbert E. Miller, II  
Edwin S. Mirochna  
Henry Paweski  
Stanley J. Romalewski  
Thomas Saks, Jr.

## PHI THETA UPSILON

On November 3, the Zeta Chapter of the Phi Theta Upsilon began its pledge season with a card and "stag" party. The Freshman and Seniors alike enjoyed the unusual entertainment provided by the brothers of Phi Theta Upsilon.

The college halls resounded with song, and the exterior of our Alma Mater sparkled with added brilliance as the month of November produced its pledges with their numerous "details".

Initiated into one of the oldest of the Optometric fraternities, were many members of the Chicago College of Optometry. Upon completion of the weeks of "details" a dinner banquet was held at the Aldine Hall on December 7. Present, as honorable guests and speakers were: Dr. W. T. Stevesson, member of the Illinois Board of Optometric Center; Dr. Newton K. Wesley, president, American Optometric Center, Chicago, Illinois. The event was given in the honor of the graduating brothers, their wives and the installation of newly elected officers.

The newly elected officers include the following: Earl Gilbert, Chancellor; Harry Halverson, Vice-Chancellor; Edward LaCroix, Exchequer; Roy Sell, Guard; Richard Snyder, Scribe; and Lou Rushford, Chaplain.

George C. Schilling  
Samuel P. Schrenzel  
Norman B. Sigband  
Henry M. Sikora  
Eugene A. Stan  
Elmer R. Stryman  
Norman O. Talman  
Telesfor F. Tobolski  
Frank J. Warzak, Jr.



# Poop From The Group

## SOPHOMORE

It seems as though some of our Sophs chased their gals until they (our boys) were caught. Dick Federhar was grabbed by Miss Doris Lakritz. They said their "I DO's" 21 Dec 47 at Tuscon, Arizona in Dick's home and honeymooned by car to Los Angelse, Calif. ..Charles B. Thompson took the "step" with a lovely Miss on 26 Dec 47 at Anderson, S.C....Mr. and Mrs. McConnie celebrated their 1st anniversary on 21 Dec 47....Mr. and Mrs. Ball expect a son in March 1948. Ball says he knows it will be a son because Dr. Finkelstein figured it out for him...Mr. and Mrs. Jeffries were presented with a bouncing baby girl on 19 Nov 47 with her name Phyllis Elaine, attached.. Congratulations to all you future papas....Abe. Perlmutter and his room mate John Antonik were flipping coins during the holidays on their way to see their gals. Heads they don't, tails they don't know..We will know when they come back. (Marriage that is).....Mr. Lasare dropped a forge on his toe..He still has the toe....Our local crime detective is known as "The Fat Man" Epstein. At present he is trying to trap Dr. Finkelstein with an intelligent question..... Dr. Tobias turns sophomore bedlam to graveyard silence with one sentence. "Class, I think we will have an exam."....You truly knew all about handling a sun-lamp, was my face red!....When the sophomore class functions become more functional, and the class more gumptional we will have a dance next year that will function.

C. V. Dulian



"NOW, COUGH!"

## FRESHMEN

Since our freshmen class was so large, and met in split sections, we decided to have two leaders to represent us. Robert W. Huntington and William B. Duke were selected by the respective groups of the Freshman class as co-presidents. These two men will also function as the co-representatives of our class on the Student Council.

Here is a bit of chatter directed to some of our students.

Edward Laszlo--Ed, thank the girl for thinking of you that much. What if she waited for another thirty months before she gave you the answer?

Adeline Geller--(The only woman in the Freshman class) I'm ashamed of your school spirit! Imagine selling all the handsome young eligibles of Chicago College down the

river by being promised to a student of N.I.C.O.

Challenges--John C. Antonik and Milton Schatten (ex-Army brass) challenge any Sophomore team to a handball match, if they dare. Choose your own gloves.

Another challenge--This is directed to the Freshman class to start the ball rolling for a periodic dinner-dance. Once we start working toward the affair, we could eventually have an annual shindig of which we can be proud.

J. Sypniewski

The staff of "EYES RIGHT" welcomes all readers to submit articles for publication. Please mail directly to the Editor, or place in mail box in the School lobby.



between the two focal lines will be 1.00 D. Due to the stimulation of his accommodation the entire interval of Sturm is moved forward so that the focus of the horizontal meridian is on the retina of the eye, and that of the vertical meridian is 1.00 D. in front of the retina of the eye. If, now, we flip the cylinder through 180 degrees, the focus of the vertical meridian will be on the retina, and that of the horizontal meridian will be 1.00 D. in front of the retina of the eye. In effect, we are asking the patient whether he likes more cylinder (-0.50 -1.00 x 90) or less cylinder (-0.50 -1.00 x 90). In either case we are compensating, either in whole or in part, for the -0.50 D.S. which we actually add to stimulate the accommodation.

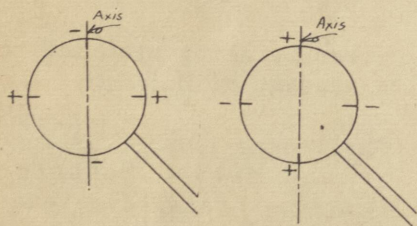


Fig 2 (a)

Fig 2 (b)

This technique has been found very sensitive in locating the axis of the cylinders to an accuracy of 1 or 2 degrees and is exact to within 0.12 D. The technique is especially valuable for its simple effectivity and accuracy in the case of relatively small amounts of astigmatism. Reprinted from Optometric Weekly.

The question has often been raised as to whether any ancient nation knew how to work lenses and use them to aid vision.

Students of Roman history will remember Cato's talks in the Roman Senate, every one ending in the memorable words "Delenda est Carthago," and in 146 BC Carthago was destroyed by the Romans, city and people being burned, and everything leveled to the ground. Much later the Romans built another city of less note upon the site, but on the decline of their supremacy in Africa this was utterly wiped out. The whole district at the present time shows practically nothing above ground of what once was there, and even the great harbors are now merely pools of water.

Excavations were made by the White Fathers, a confraternity of monks. In hundreds of deep vertical shafts, terminating in chambers, were found sarcophagi containing lenses. In one case was found a pair of round, spherical lenses, of about 1 1/2 inches in diameter which were -5 1/2 Diopters. The sarcophagus containing them dates from the Fourth Century BC.

There are several matters worth noting in reference to the absence of any reference to such lenses in ancient literature. The Carthaginians, although their ancestors gave us an alphabet, they were not literary people, and singularly few writings, remain, these dealing with agriculture.

Archimedes puzzled the Romans with his inventions for the defense of Syracuse, a Carthaginian colony in Sicily, and the report of the assailants that he employed some optical device for focusing the sun's rays, often re-

It takes money to start a practice. This money must be provided by the veteran. The Government under the G.I. Bill of Rights does not make a gift to a veteran to start a practice; neither does the Government make the veteran a loan. It does provide assistance if, and only if, the veteran can comply with definite and rigid requirements. For example, assume the veteran is qualified by experience and ability to manage a business or practice. If he can induce a bank, insurance company, or individual to lend him money to go into practice, at an interest rate of no more than 4%, he can apply to the Administrator of Veterans' Affairs for a guaranty by the Government not to exceed 50% of the loan, with the guaranteed part of the loan not to exceed \$2000. To illustrate, if the loan is for \$6,000, the veteran can apply for a guaranty of \$2,000 of it. If the loan is for \$3,999, the veteran could apply for a guaranty of only \$1,500 of it.

A loan for the purchase of business property includes any business, land, building, supplies, equipment, machinery, or tools, to be used by the applicant in the operation of a business.

The Government will pay interest for the first year on the guaranteed part of the loan.

Veterans' Affairs inquiries will be answered in this column. Kindly submit questions to Eyes Right mail box.

C. V. Dulian

garded as a fable, may, in consequence of the finding of these lenses not be so fabulous as some historians imagine.

Reprinted from  
Optical Developments.

DON'T FORGET TO ATTEND  
THE I.O.A CONVENTION  
SUNDAY AND MONDAY, FEB-  
RUARY 8TH AND 9TH.





Volume 2, No. 4

April 1, 1948

### DOCTOR FREEMAN APPOINTED EXECUTIVE DEAN

With the announcement of the appointment of Dr. Eugene Freeman to the post of executive dean of the college, the administration is once more pursuing its policy of placing outstanding educators in the field of optometry into key administrative and educational positions.

Dr. Freeman's post will not supersede or conflict with any of the existing administrative posts. He will serve essentially as a technical adviser and consultant on academic matters to the staff. This is a role for which Dr. Freeman is uniquely qualified, not only as an experienced educator, but also as a successful optometrist.

Scholarly, self-assured Dr. Freeman was born in New York's Greenwich Village in 1906. His zeal for education which finally led him into the field of optometry, earned him an A.B. degree in Philosophy from UCLA, a PhD in the Philosophy of Science from the University of Chicago and his OD from Northern Illinois College of Optometry.

As an educator, Dr. Freeman made a name for himself as a teacher at Northern Illinois College of Optometry where he taught Physiology, Physiological Optics and Professional Ethics. At the present time, he is also Assistant Professor of Philosophy at the Illinois Institute of Technology.

His fame as an optometric educator became more rooted through his writings on this



subject. His most important contribution in this field was made in 1942 when he co-authored the "Manual of Accreditation for Optometric Schools and Colleges". This manual was accepted by the Council of Education of the American Optometric Association. He also wrote numerous papers on physiology, contact lens work and the philosophy of science. His latest article "Method of Science" as published in the April issue of the Journal of the American Academy of Optometry.

From 1934 to 1944, Dr. Freeman devoted himself also to the practice of Optometry, limiting himself to contact lens work. In this latter field, Dr. Freeman has acquired an international reputation. He was one of the first optometrists in the contact lens field.

(Cont'd. Col. 3, Pg. 3)

### LAST MONROE DAY CLASS GRADUATES

The commencement exercises for the last graduating class of Monroe College of Optometry, were held Monday evening, March 29, 1948, at the Peoples Church of Chicago.

The graduates marched into the auditorium to the strains of the Processional. The 234 candidates for the degree of Doctor of Optometry were dressed in the traditional caps and gowns and seemed to reflect the solemnity and dignity of the occasion.

The opening address was delivered by Morton L. Abram, the Assistant Director. The class was then addressed by John A. Leon, Senior Class President and was followed by the Valedictory address by Irwin W. Harland, Jr.

After a musical interlude, Clifford V. Dulian, President of the Student Council of C.C.O. made the Farewell Address to the Class of March 1948.

Dr. Ernest Takahashi, dean of the school, introduced Dr. Eugene Freeman, newly appointed executive dean, who delivered the commencement address. Dr. Gilbert Lee Hicks, Dean Emeritus, then conferred the degrees upon the candidates.

After the conferral of the degree of Doctor of Optometry, the degree of Doctor of Optical Science was conferred upon the following:

(Cont'd. Col. 1, Pg. 8)



# SCIENCE

## BLOOD PRESSURE HIGH

Blood pressure in the human body is defined as, "the pressure exerted by the blood at a given instant upon a point in the circulatory system; whether within the heart, arteries, capillaries or veins.

Richard Bright, over 100 years ago, described high blood pressure, generally referred to as hypertension and sometimes hyperesia, as associated with kidney disease. His ideas existed until 1896, when Clifford Albutt described hypertension as being due to some vascular constriction which led to arteriolar sclerosis and was not primarily associated with kidney disease. Following in 1899, Trigerstad and Bergmann discovered that extracts from the kidney contained a protein that would produce a rise in arterial pressure.

In 1932 Goldblatt began various experiments on dogs and monkeys and found that, by constricting the renal artery on one side he could produce hypertension resembling that in man. He showed that the degree of hypertension depended upon the amount of occlusion of the renal artery.

Since 1932 much has been done on hypertension. For instance in 1929 Page purified rennin and showed that alone it would not cause hypertension, but that there existed in the blood a rennin activator which, when combined with rennin, produced angiotonin. Angiotonin produced vaso-constriction and was, therefore, responsible for hypertension. However, though much has been done, no definite conclusion can be drawn from this knowledge for there are many factors that produce the same type of hypertension disease.

The discovery of the ophthalmoscope, by Helmholtz provided a means to observe the cause of symptoms of hypertension in the eye, also the clinical import-

ance of fundus examination has increased with a better understanding of hypertension.

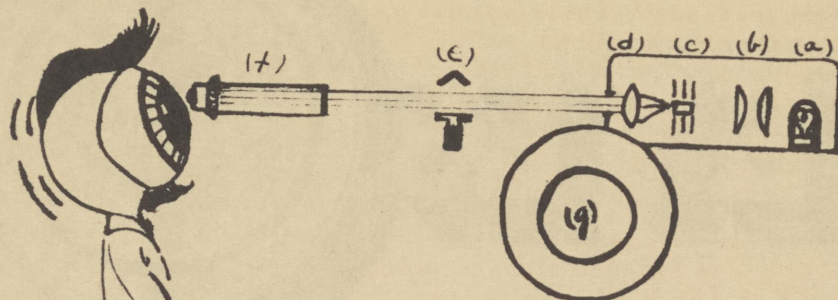
The changes occurring in the ocular fundi of patients with arterial hypertension offer the only direct observation of the arterioles and the effects of their disease on the retina. The principal changes in appearance of the retinal arterioles consists of occlusion and sclerosis. Early visible arteriolar changes are first evident in the light reflex which becomes widened and takes on a metallic luster. Later the vessels become sheathed and may appear as silver wires. The veins become involved in a sclerosing process at their intersection with arterioles.

The arteriolar sclerosis is seen in most cases of hypertension and may be divided into four stages representing the degree of sclerosis:

1. Loss of translucency; the light reflex is increased.
2. The light reflex is very vivid and there is a slight compression of the veins and arteries.
3. The size is reduced and the reflex stripe is very obvious. Arteriovenous compression. Grades 2 and 3 represent copper wire arterioles.
4. This is the silver wire arteriole; the vessel has become very vague and is only a thread.

THOMAS R. SEKEY

HOMOLOGUE 99 HAS FINALLY BEEN SOLVED--  
NOW WHAT IS FESTARUS?



LENSOMETER

QUESTION: How does the lensometer measure lens power?

ANSWER:

The lensometer, or, vertometer, measures vertex refraction of a lens, by the use of parallel light. Referring to the diagram, a light source (a) illuminates a mire (c). A high-powered plus lens (d), about 25 diopters, is placed 4 centimeters away from the mire. Consider one point on the mire. The vergence of the light, from the mire, hitting upon the lens (d) is +25 D. Therefore, the light coming out of (d) is parallel.

The telescopic eyepiece is built for parallel light reception.

The image of the mire is therefore, clear.

An unknown lens is placed in the lens carrier (e), disturbing the reception of parallel light, thereby blurring the image of the mire.

In order to re-focus on the mire, the light house unit is moved, by means of a wheel either forward or backwards, depending on whether the unknown lens is plus or minus.

The vergence of the light from the mire is made to neutralize the + 25 D lens and the unknown lens, giving again, parallel light, and a clear image.

The distance that the mire is moved, either forward or backwards is measured on the wheel, which has dioptric calibrations on it, rather than inches.

(Cont'd. Col. 1, Pg. 8)



## THE HUMAN SIDE OF IT

By Norbert Kastner

A few years ago, Philadelphia youngsters thrilled to the pleasant voice of "Miss Pandora" who over WCAU and other radio stations dramatized her own stories.

Today, Chicago College of Optometry not-so-youngsters thrill (?) to "Miss Pandora's" dissertation on the digestive system of the frog. "Miss Pandora", in real life, is Mrs. Orent, a charming addition to the teaching staff of CCO's Biological Sciences Department.

Since our Science Editor has assured us that corn will grow on paper, we will indulge in a bit of corny dialogue.

We: Who was that student we saw you with, last night?

Mrs. Orent: That was no student that was my husband!

Yak, yak. This, introduces Joseph Orent, who studies while wife Dorothy teaches.

Joe, who is a sophomore student at CCO and who attended New York's City College and Cornell University, will not take a back seat when it comes to science, being a bacteriologist and doubling in brass as an instructor at Chicago College of Laboratory Techniques.



Dorothy Orent, who received her B.S. in Education, English and Biology at Temple University also has an M.S. Degree in Biology, conferred upon her by Columbia University's Teachers College.

Prior to Mrs. Orent's call to the teaching post at CCO, she taught biological sciences at various high schools in New York and New Jersey.

The Orents are married one year. Joe (pardon the familiarity) spent almost four years in the Navy as a Pharmacist's mate and Dorothy said that he had been the first sailor she had ever known.

Now, making their home in Chicago, the Orents spend their free evenings (that is when Joe isn't cramming for an exam or Dorothy isn't busy making up ambiguous exam questions), listening to classical music. They have a fine classical record collection and to hear

## EYES RIGHT

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Milton Treiser  
Harry Levine

(Continued from FREEMAN, Pg. 1)

As director of Ethics of the Illinois Optometric Association and as president of the Illinois Chapter of the American Academy of Optometry, Dr. Freeman has contributed much to professional optometry.

The executive dean who is the father of two young sons, still manages to find time for his two hobbies - riflery and photography. During his student days, Dr. Freeman tied for first place in the individual National Intercollegiate rifle tournament and was also a member of the winning team. He also won first place in one of the U.S. rifle matches in the National Guard Class. He is also proud of his gold "Distinguished Marksman's" badge, which was awarded to him by the War Department on the basis of his standing in national military rifle matches.

Asked about his plans for the future, Dr. Freeman stated that he planned to continue his work in contact lens practice and manufacture, by delegating the technical phases of his work to his capable assistants in his office and laboratory, and by confining his own participation to the purely professional and non-technical phase of the practice.

In this manner, Dr. Freeman expects to be able to carry on the basic needs of the practice while devoting most of his time to writing, teaching, and assisting in the administration of CCO.

Dr. Freeman was convinced that "with the cooperation offered by the director and his staff, we can make Chicago College of Optometry the best optometric college in the United States."

Mrs. Orent tell it, Joe is the music critic of the combo. Their favorite composer is Brahms and their favorite food - well, just about everything from steaks to sheeshkebob, as well as the food in the grill. When interviewed by this reporter, Mrs. Orent disclaimed any knowledge of Homologue 99!



# THE MEN AND WOMEN WHO MAKE C C O TICK

## ADMINISTRATIVE STAFF

NAME	DEGREE	SCHOOL GRADUATED FROM	DUTIES
Dr. Reuben Seid	MD	University of Illinois Medical School	Director
Morton L. Abram	LLB	DePaul University Law School	Assistant Director
Dr. Gilbert L. Hicks	AB OD	Coe College, Iowa Northern Illinois College of Optometry Monroe College of Optometry	Dean Emeritus
Dr. Eugene Freeman	AB PhD OD	UCLA University of Chicago Northern Illinois College of Optometry	Executive Dean
Dr. Ernest S. Takahashi	AB Optometry DOS	University of California, School of Optometry Monroe College of Optometry	Dean
Dr. S. H. Paul Stephens	DOS	Monroe College of Optometry	Registrar
Leo S. Stein, CPA	BS	Northwestern University	Comptroller
Herbert L. Kellner	LLB	Northwestern University	Business Manager
Dr. H. S. Wodis	OD DOS	Monroe College of Optometry Monroe College of Optometry	Clinic Director
Dr. Benjamin Seid	MD BS	University of Illinois Medical School University of Illinois	Health Director
Dr. Edward C. Tobiasz	BS OD DOS	Illinois Institute of Technology Monroe College of Optometry Monroe College of Optometry	Director of Student Counseling Services

Compiled by Frank Rodgers



# EYES RIGHT PRESENTS

## TEACHING STAFF

NAME	DEGREE	SCHOOL GRADUATED FROM	SUBJECTS TAUGHT
Dr. Stuart Brent	BA-BS MS PhD	Lewis Institute Chicago Teachers College University of Chicago	Sociology
Dr. Robert Finklestein	BA MS PhD	Ohio State University Ohio State University Ohio State University	Pathology Physiology Anatomy
Dr. Joseph B. Gutstein	ScB BS Optometry DOS	Columbia University Columbia University Monroe College of Optometry	Instrumentation Hygiene
Dr. Joseph E. Katz	OD	Monroe College of Optometry	Instrumentation
Dr. Jonathan M. Kurtz	BA-AM DOS	Oberlin College Post-graduate Work, University of Chicago Monroe College of Optometry	Chemistry Physics
James Kurtz	BA Physical Ed.	Purdue University	Physical Ed.
Dr. Walter L. Moore	BS-MA OD	Iowa State College Monroe College of Optometry	Algebra Trigonometry
Dr. Allen Norris	AB DOS	Stanford University Monroe College of Optometry	Analytical Geometry Differential Calculus
Mrs. Dorothy Orent	BA MA	Temple University Teachers College, Columbia University	Zoology
Dr. Ernest S. Takahashi	AB Optometry DOS	University of California, School of Optometry Monroe College of Optometry	Orientation
Dr. Edward C. Tobiasz	BSc DOS-OD	Illinois Institute of Technology Monroe College of Optometry	Anatomy Physchology
Dr. Telesfor F. Tobolski	AB OD	Loyola University Monroe College of Optometry	English
Dr. E. P. Tennant	OD-DOS	Monroe College of Optometry	Geometrical Optics
Charles H. Thuerner	AB MSc	Indiana University University of Chicago	Physiological Chemistry
Dr. H. S. Woods	OD-DOS	Monroe College of Optometry	Instrumentation
Dr. Charles L. Ziman	BA MD	University of Chicago University of Chicago Medical School	General Anatomy



# Poop From The Group

## ADVANCED SOPHOMORE

Some of our Sophomore men are full fledged T men. At present they have not been assigned to capture any counterfeiters but are quite busy filing names for the Treasury Dept. Our busy little boys are: Abe Perlmutter, Art Simon, Joe Barchfeld, Schikles, Joe Rainville.

While carrying some of the CCO boys to work, John Antonik and Joe Barchfeld were racing with their cars. A road block was subsequently put up by the police to stop two speeders who might possibly be hold-up men. The boys are back in school so don't spread the word around.

Since the Sophs have their instruments I understand they are looking into the deep pools of the fair sex and sometimes end up in a state of osculation due to improper handling of their instrument. I wonder if there is any insurance covering this type of malpractice?

A note was found in the Eyes Right Box, quote, "Cliff Dulian was seen going to bed with his Captain bars pinned on his pajamas. It is rumored that he has them tattooed on his chest too." After all, who ever you are, if the buttons are off, a fellow has to pin his pajamas in some fashion; furthermore, the bars are cool on hot nights.

Some of our Sophs think that an apple a day will produce an "A"---if left on the teacher's desk. How about that, Dr. Finklestein?

Have you ever noticed our class brother, Mr. Bradshaw? He never says much but he can certainly draw sketches. How about submitting your plan of how CCO and its campus should look. Brad? I would like to show the boys your talent.

Excerpts from the sociology lecture. Quote Dr. Brent: "Schwartz, the way you are wasting your life you must think you are immortal".

Vleice recently took the step with a lovely lady. Congratulations V.

## ADVANCED FRESHMEN

The students and faculty wish to extend their sincere sympathies to the two Advanced Freshmen whose fathers have passed away recently. Albert L. Lamy, father of Dennis Lamy, died February 23, 1948. John A. Koziczynski, father of Adrian Koziczynski, died March 11, 1948.

Salutes to the two Advanced Freshmen English classes conducted by Dr. T.F. Tobolski. Upon hearing of the demise of Kozy's father the hat was passed around and Class President Huntington was very proud to collect a very sizeable sum.

The grill of the North Ave. YMCA won't be the same anymore, since the coffee clutch host, Bert Kastner, turned to more pleasant environments, upon the arrival of Ruth, his better half.

Why was Wozniak called the professor the other morning? Did Hudasz recount to you the most harrowing experience he had? No, well don't give him a chance. Who are the lads dating the office personnel???

All incoming Freshmen have to progress through the Orientation course to acquaint themselves with all the school dignitaries. How about a similar course for the incoming instructors?

Now that the mid-terms are over, a popular advertisement has been handed to me---quote, "Anyone knowing the whereabouts of a good set of Physio-Chem notes, that will guarantee at least an A in the course--contact locker 1219"

## CCO Coed Weds NIC Junior

Adeline Geller, Business Manager for Eyes Right was married Saturday evening, March 27, at the Shoreland Hotel's swank Crystal Ballroom, to Paul Shulman, Northern Illinois College of Optometry Junior.

Paul Shulman hails from New York City where he received his E.S. degree at the College of the City of New York. Mr. Shulman is currently a student teacher of Histology at NIC.

## BEGINNING FRESHMEN

Our class has finally broken into print with the following bits of news and chatter. See your class reporters for publication of items that might be interesting for this column.

Raul Reyes' wife, Maria will be hospitalized shortly. We all wish her a speedy recovery.

Belated Happy birthday to Jim Richmond who celebrated on February 21st.

"Donnie" Donoho can tell you the story of how he met the Esquire girl at the Historical Society---We thought that one could only find inanimate things at a museum---Huh!

There is a rumor circulating that Dr. Kurtz does not know how to thank all the boys who helped with the chemistry tables--should we tell him?

Congratulations go to Frank Lobart. He popped the fatal question and will be married next Fall.

Don't look now, but there is a potential deserter in our midst. After the very interesting lecture, by Dr. Henry Wolfe, on the "Relationship of the Optometrist to the Other Successful Professional Men" in the orientation course, one of the students wanted to know what kind of a course N.I.C.O. offered-but hastened to assure Dean Takahashi that he was not thinking of changing. Hmmm...mmm we wonder!

If you want to hear a fascinating discourse on art and the comparative values and merits of the old master's and modern art, corner Dr. Finklestein some time. But first have him tell you the story of the Fecal Embolus in the Circle of Willis or the one on Opisthotonus.

The nuptials were attended by the family and many friends of the couple. The bride wore white while the groom was attired in formal evening wear.

After a brief honeymoon, the couple made their home at 6739 South Eastern Avenue, Chicago.



# It's Greek To Me

By Louis W. Kooistra

## PHI DELTA LAMBDA

The smooth delightful music of Ronnie Rogers and his orchestra drifting over the happy dancers at the beautiful blue and gold Michigan Room of the Edgewater Beach Hotel, ushered in the spring-time calendar of activities for the men of Phi Delta Lambda fraternity. This, the first annual Spring Dance, given March 27th for the entire student body of both schools, was presented in the honor of the Spring graduating class of Monroe College. It was indeed one of the most colorful events of the semester, and a delightful, dance-filled evening was enjoyed by the many couples attending.

The familiar strains of the wedding march bade a fond farewell to the care-free bachelor days of brother Otis E. Payne, for on March 27th our sgt-at-arms exchanged vows with Miss Jean Avery of Waukegan, Illinois. The brothers of Phi Delta Lambda wish to extend congratulations to the newlyweds and assure brother Payne that he will still be allowed to exercise his commands with respect, at least at the fraternity meeting.

Many activities are planned for the coming months and various committees are endeavoring to contact guest speakers and arrange interesting and educational meetings. Alex Markow, New York, was initiated at a recent meeting and several more new members are to be initiated in the near future.

March 10th was an evening of great historical importance for the brothers of Alpha Chapter, Phi Theta Upsilon International, as it saw the election and installation of new officers consisting entirely of four year students. The newly elected officers include the following men:

Chancellor: Forest C. Wyckoff, Michigan.

Vice-president: Clifford V. Dulian, Michigan.

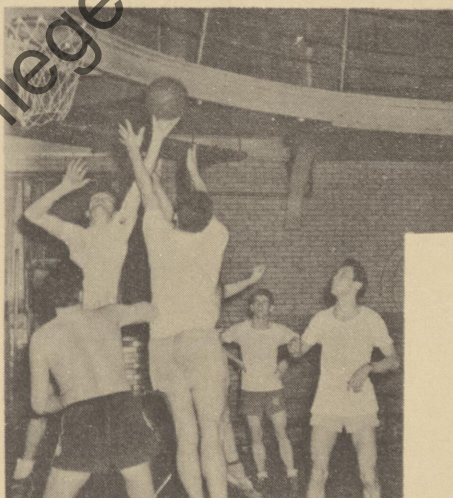
Scribe: Thomas R. Sekey, Wisconsin.

Sgt-at-arms: Theodore Schwartz Illinois.

With the mid-semesters and, in many cases, the final exams over, the brothers of Phi Theta Upsilon welcomed the Spring Dance given at the Edgewater Beach Hotel by the Phi Delta Lambda fraternity. With the month of March occupied by business meetings and the initiation of several new members, the fraternity has plans in progress for a gala all-school dance to be presented at the end of the spring semester.

The new pledges cheerfully enlivening the College Grill with song, and contributing to the education of the underclassmen by so willingly exposing reproductions of the fundus include the following men: William J. Buchanan, Irwin Rushford, Edward Germanos, Edward Laszlow, Fred Beckman, and Edward Daskiewicz.

Having successfully served their pledgeships, Robert Huntington, Indiana; John C. Antonik, New Jersey; Abe Perlmutter, California; and Robert Beckman, Illinois, were presented their gold keys by the retiring chancellor, Earl Gilbert.



## FIGHTING FROSH TRIUMPH 41 to 36

On March 21, at the North Ave. YMCA, amid much spirited cheering, the first official meeting of the Sophomore and Freshman basketball teams this season got under way. Freshmen, showing real interest in this intramural contest, took the floor sporting a bench load of substitutes. This, coupled with the fact that the Sophomore team had nary a replacement, can lead us to assume that the deepness of the Frosh was a factor leading to their victory.

The game opened with a sloppy and helter-skelter exhibition turned in by both teams as each squad repeatedly flubbed scoring opportunities. The score at the end of the first ten-minute quarter stood at 5-3, Freshmen leading. However, both teams soon settled down after the first hectic minutes to play a determined and a markedly more accurate game. This accounts for the heavy scoring in the second period in which the Frosh began to ease away from a fast tiring Sophomore quintet. Taking advantage of their numbers, Freshmen players repeatedly broke up the opposition plays without regard to personal fouls ---good officiating made itself evident during this period.

Leading by a score of 23-14 the Freshmen left for the ten-minute half-time break. When both teams took the floor again, Sophomores attempted in vain to close the gap. Holding the opposition to even scoring during the third quarter, Freshman Captain Irwin Golden, emptied his bench with the score standing at 33-24. This new squad took the floor to play for the next eight minutes being outscored by two field goals.

The starting Frosh five again returned to the game with two minutes to play, but at this time the outcome of the contest was already obvious.

High scorer for the game was hard-driving Soph center Art Rubin with 17 points. Leading the Frosh team was Barger with 12 points.

CHARLES DRUCKER



## GRADUATION (Continued)

Dr. S. Leonard Gilmartin; Dr. H. Philip Kessler; Dr. Philip A. Licciardi; Dr. M. Aurelius Masuoka; Mr. Allen Norris; Dr. R. Elliot Politser.

Among the graduates, receiving the degree of Doctor of Optometry, the following were members of Kappa Phi Delta, the Scholastic Honor Society.

Irwin W. Harland, Jr; Edward Stanley Olsen; Irving Gordon; Walter L. Moore; George J. Buto Leo M. Bishop; Leonard R. Dembek; Elliott L. Friedman; William L. Goldsmith; Allan D. Nestor; Roy M. Hashioka; Edward J. LaCroix Jr.; Sol Tannenbaum; George H. Ackerland; Leo C. Kaplan; and Harvey J. Kres.

## LENSOMETER (Continued)

EXAMPLE: Place a -5D lens in the holder. This lens diffuses the parallel light and the image of the mire is blurred. The combination of -5D with + 25 D, in air, gives a lens system of approximately + 20 Diopters.

The mire, in the Zero position, is 4 cm behind (d), and must be moved back one cm more, so that the vergence of light from the mire will neutralize + 20 Diopters.

The wheel is calibrated in Diopters, so that, instead of reading 1 cm difference, it reads a - 5 D difference.

V.P. AMATO

Following the invention of spectacles in Italy in the thirteenth century many savants studied the light-concentrating properties of lenses. In the sixteenth century Giambattista della Porta described many of the types of lenses used in modern spectacles.

An Italian, Maurolycus, was the first to write about long and short sight. He lived in Messina in the fifteenth century.

## THE MUSIC BOX

Saturday evening, February 28, 1948 the Chicago Symphony, under the direction of Tauno Hannikainen, assistant director of the orchestra, gave a "Pop" concert at Orchestra Hall. The capacity audience, made up largely of young people, enjoyed the concert immensely as their frequent bursts of prolonged and hearty applause attested.

A number of students of our college attended, trying, no doubt, the rarefied atmosphere of symphonic music to escape the endless worry about exams in Physiology, Psychology, Retinology, etc.

The direction of the orchestra was superb. Mr. Hannikainen caught all the brooding atmosphere of Finnish forests and lakes inherent in the "En Saga" tone poem by Sibelius. He played the excerpts from Tchaikowsky's "The Serenade for String Orchestra" with fine grace. But it was in the D Minor Symphony of Cesar Franck that the orchestra gave the deepest gratification, reaching musical fulfillment in every climactic moment of the symphony.

Another "Pop" concert by the Chicago Symphony will be given May 1, 1948 at Orchestra Hall ---the program will be posted on the bulletin board shortly. The student tickets allotted to the college can be obtained from Dorothy at the front office at prices ranging from forty cents in the gallery to one dollar in the orchestra.

N. FRIEDMAN

## CONTEST!!!

### WHAT IS HOMOLOGUE 99?

The mysterious hydrocarbon that has been circulating around the school has finally been explained. Homologue 99 is the plastic constituent of the book, "Transparencies of the Human Eye", which is offered as the prize for the best CCO sticker.

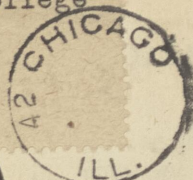
#### Rules:

1. The drawing must be made on a 5" x 7" card in either black or colored inks. The design should include the letters C C O.
2. Staff members of Eyes Right, members of the administration and members of the faculty may not participate in this contest.
3. The judges will be members of the administration and the art staff of Eyes Right.
4. All entries will become the property of Eyes Right and are not returnable.
5. All entries must be at the Eyes Right office no later than 3 PM, May 14, 1948.

EAT	--20/200
AT THE	--20/100
COLLEGE GRILL	--20/40
VERY FINE FOOD	--20/20







# EYES RIGHT

Volume 2, No. 5

OCT 19 1948  
CHICAGO COLLEGE OF OPTOMETRY  
1849 Larrabee Street  
Chicago 14, Ill. July, 1948  
FOREST GROVE, OREGON

## MONROE GRAD FIRST AIR FORCE OPTOMETRIST

Dr. Charles C. Dunn, a graduate of Monroe College of Optometry, class of December 1947, has been appointed by the Surgeon General of the United States, to serve as the first optometrist in the Air Force with the rank of First Lieutenant, Medical Service Corps.

Lt. Dunn was assigned to MacDill Air Force Base, Tampa, Florida. In an exclusive communication, Lt. Dunn stated that his duties consist of routine visual surveys for flying personnel, all refractions, dispensing and minor repairs for the Air Base. The dependents of all personnel have access to his services through the out-patient clinic.

Lt. Dunn's office is a part of the Eye, Ear, Nose and Throat clinic of the Station Hospital. The Air Surgeon General has indicated that Lt. Dunn will be called upon in an advisory capacity for matters of future policy pertaining to Optometry in the Air Force.

The medical men of MacDill Air Base have warmly accepted Dr. Dunn and have extended him all professional courtesies. Cases of ocular pathology are referred to him for information, knowledge and diagnostic consultation.

Questioned as to the advantages a young optometrist might find in the Medical Service Corps, Lt. Dunn replied, "While the remuneration for one's services

## COLLEGE ACCREDITED BY A. O. A.



Accredited

On May 6, 1948, Chicago College of Optometry received word that the Council on Education and Professional Guidance of the American Optometric Association had released an announcement provisionally accrediting the College.\*

Recognition of the school was hailed with great joy by the entire student body, the faculty, and the administration. It was explained that provisional accreditation is the means by which all new schools are given approval by the Council. It is not a limitation of the quality of recognition. It simply will serve as a means whereby a new school will be given an opportunity to develop under close guidance of the Council during its initial years.

Mr. Morton Abram, Assistant Director of Chicago College of Optometry summed up the implications of the school's recognition when he stated: "This means that the tremendous efforts of the student body, faculty, and administration of Chicago College of Optometry to develop a good school has been recognized by the Council on Education and Professional Guidance. It also signifies that we are now placed on the same footing as other schools of Optometry and as such are most happy to become a member of the great family of optometric educational institutions. In receiving the approval of the official accrediting body, we must not for a moment relax our efforts to

## STUDENT COUNCIL APPROVES NEW CONSTITUTION

At a recent meeting, members of the Student Council of Chicago College of Optometry approved a new constitution, designed for their activities under the four-year program of the school. Article II of this constitution is hereby reprinted so that the purpose of the Council may be made known to all.

"The purpose of this Council shall be to plan, prepare and activate programs that will benefit the student body, alumni, and the school in general; to promote general culture and higher ethics; to promote desirable student activities in social and athletic programs; to develop extra-curricular educational programs; to ascertain and assist in solving grievances; to establish and maintain public relations; and other kindred activities as may be decided by two-thirds vote, a quorum being present, at a meeting of the Student Council."

(Cont'd. Col. 1, Pg. 8)

(Cont'd. Col. 1, Pg. 8)



# SCIENCE

## VISUAL SPACE

by V. P. Amato

How can the eye see depth, or distance? This topic, space manipulation, is one that is being investigated continuously for application in Visual Training. For the most recent writings in this field, I refer you to your library.

I am going to take you back to the 15th Century and Leonardo da Vinci, one of the first experimenters in visual space perception.

Leonardo observed that one of the prime cues of depth was light and shadow. He further explained this in terms of attached shadows and cast shadows. The attached shadows show the relief or tridimensionality of a single object, whereas, the cast shadows show a spatial relationship between two or more objects.

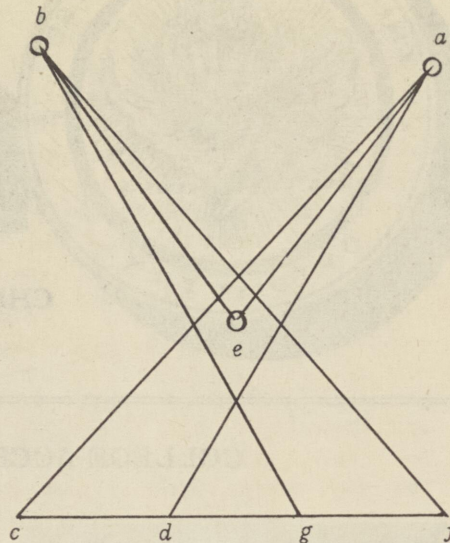
The judgment of relative distance, according to da Vinci, was dependent upon three types of perspective: a) The linear perspective, or the decrease of angular size of an object as it gets further away; b) detail perspective, or the loss of finer details (shape, lines, shading) as the object recedes; c) aerial perspective, or the loss of object color, due to the effect of the air, fog, or smoke when viewing a distant object.

An object in movement is also a cue to distance. An example of this: A plane, very high in the sky, progresses across your field of view much slower than a plane flying low.

The most important of da Vinci's observations is termed, today, binocular parallax.

This is a direct quotation from the works of Leonardo DaVinci.

"It is impossible that a painting, though reproducing its object with absolute perfection of line, light, shade and color, can appear with the same relief as the natural object--unless indeed that natural object be seen at a distance and with only one eye. The proof is as follows: Let the eyes (a) and (b) regard the object (c), with con-



vergence of the central lines of sight, (ae) and (be), meeting at the point (c); the lateral lines of vision will pass beside the object and see space behind it. Eye (a) sees the whole space (fd); eye (b) the whole space (gc). Together the eyes see the whole space (fc) behind the object. For this cause the object is transparent, according to the definition of a transparent object--behind which nothing is hidden--but this cannot happen to one who looks with only one eye (unless the object is smaller than the pupil of the eye). Thus we have an answer to our question. For in painting, a near object preempts the whole space lying behind it, and there is no way of making any part of this space visible."

## TRANSPOSITION

By Dr. Max Roseman

Following are some very simple rules for transposition. Definition of Transposition: To change the curvature without changing its power.

Rule. I. How to change a Plano  
Cyl. into a Spherical Cyl.

- A. For the new sphere, take the power of the old cyl sign unchanged.
- B. For the new cyl. take the power of the old cyl. sign reverse and the axis 90 degrees away from the old axis.

### Plano into Spherical Cyl

Old Cyl.	Axis	New Sphere
+7.25	$\times 10$	+7.25
New Cyl.		Axis
-7.25		100

Rule II. How to transpose a spherical cyl into another sph cyl.

- A. For the new sphere combine, the old sphere and cyl.
- B. For the new cyl. use the power of the old cyl. sign reverse, and axis 90 degrees away from old axis.

$$\begin{array}{r} \text{Example. } -3.00 \text{ sph.} + 2.00 \text{ cyl.} \times 90 \\ \phantom{-3.00 \text{ sph.}} -3.00 \\ \phantom{-3.00 \text{ sph.}} -1.00 \text{ sph.} - 2.00 \text{ cyl.} \times 180 \\ \phantom{-3.00 \text{ sph.}} -2.00 \\ \hline \phantom{-3.00 \text{ sph.}} -1.00 \end{array}$$

Rule III. Cross Cyl...a lens composed of two cyl. whose axis are and must be 90 degrees apart. (If not 90 degrees apart it cannot be transposed.)

- A. If the signs and powers in the two principle meridians are alike, the cross cyl. will resolve itself into a sphere.
- B. If the signs or powers are different the cross cyl. will resolve itself into a sphere cyl.

### 1. How to Transpose a Cross Cyl. into a Sph. Cyl.

- a. For the new sphere use the power of either cyl. sign unchanged.
- b. For the new cyl. change the sign of the cylinder which was used as a sphere, and combine with the remaining cyl.
- c. For the axis, take the axis of the cyl. which was not used as the sphere.

Example:  $+4.00_{\text{cyl.}} \times 90 + 1.00_{\text{cyl}}$   
 $-4.00$   
 $+4.00_{\text{sph.}} + 3.00_{\text{cyl}}$   
 $\times 180$   $\frac{-1.00}{-3.00}$



## THE HUMAN SIDE OF IT

By Norbert Kastner

**FLOWERS DEPT:** A few bouquets of spring flowers to the Student Council and to the administration who are doing such nice work in ironing out students' gripes.

**POLITICAL DEPT:** In addition to the mock election sponsored by Eyes Right, in which students were able to vote for their favorite presidential candidates, Eyes Right will also feature a presidential battle page after the national conventions.

**ERROR DEPT:** To err may be human and to forgive divine, but the man who gets up and admits that he made a mistake is really great. Our hat's off to Dean Takahashi for apologizing to one of the students in his Orientation class for having mistaken the student's dark glasses as a camouflage for sleeping.

**WORDS FAIL ME DEPT:** Dr. Freeman executive dean, was so moved by the presentation of an honorary membership by Phi Delta Lambda at their last open meeting, that he couldn't say anything when Chancellor Roscoe Rose presented him with the gold key. This is possibly the first time anybody has ever seen the executive dean at a loss for words.

**BOOK DEPT:** Nathan Friedman, frequent contributor to these pages, surprised this columnist with the disclosure that he had written several books. One of his literary efforts will be reviewed in the next issue of this publication. Publishers, please note!

**KEYHOLE DEPT:** Overheard at the grill, during breaks and in Pessin's emporium: 'so I told her that if she supports me now, I'll pay her back when I pass the State Board...'... 'the instructor looked straight at me and he didn't even see the pony I was using; I think I'll patent it'... 'they wanted \$400.00 for the furniture'... 'did you order your neon sign yet?'..... 'can you lend me a fin till my subsistence check comes through?'

**ENTERTAINMENT DEPT:** The student body is still giggling over the performance of the hawker who

## EYES RIGHT

Official Undergraduate  
Publication of the  
**CHICAGO COLLEGE  
OF OPTOMETRY**  
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## SCHOOL ACQUIRES NEW LOOK

For many weeks painters and carpenters have been busily engaged in interior and exterior redecoration of the school. Classrooms and hallways now sport that new look of immaculate paint and the hope has been expressed that the student body will appreciate the cleanliness of the premises sufficiently to refrain from activities which would mar this beautiful appearance.

A bronze plaque, donated by the alumni of Monroe College of Optometry, bearing the name of the school, near the front entrance, has also added to the outside appearance of the school,

The new science laboratories are now fully equipped and in complete operation.

held the sophisticated members of the intelligentsia spellbound with his frontier-day spiel and card tricks. We are told that Chicago College of Optometry has more spot removers per capita than any other school in the country.

## COLLEGE ENROLLMENT ON UPGRADE

New students, enrolled at Chicago College for the summer trimester, represent most of the 48 states and the Dominion of Canada. Among them are freshmen as well as students with advanced standing.

Notable additions to the student body are Mrs. Dorothy Orent, popular instructor in the Department of Biological Sciences and Dr. Hugo Heinsheimer, a dental surgeon.

Dr. Heinsheimer, a graduate from the University of Vienna, was forced to leave his native Austria in 1938 and remained in England until 1947 when he came to the United States. Dr. Heinsheimer, who was a practicing dental surgeon in Vienna and in London, is also an M.D., a degree prerequisite to dental surgery under the Austrian system.

According to the registrar's office, advance enrollments for the September classes indicate a larger freshman class for the fall trimester.

## FOREIGN EDITOR VISITS COLLEGE

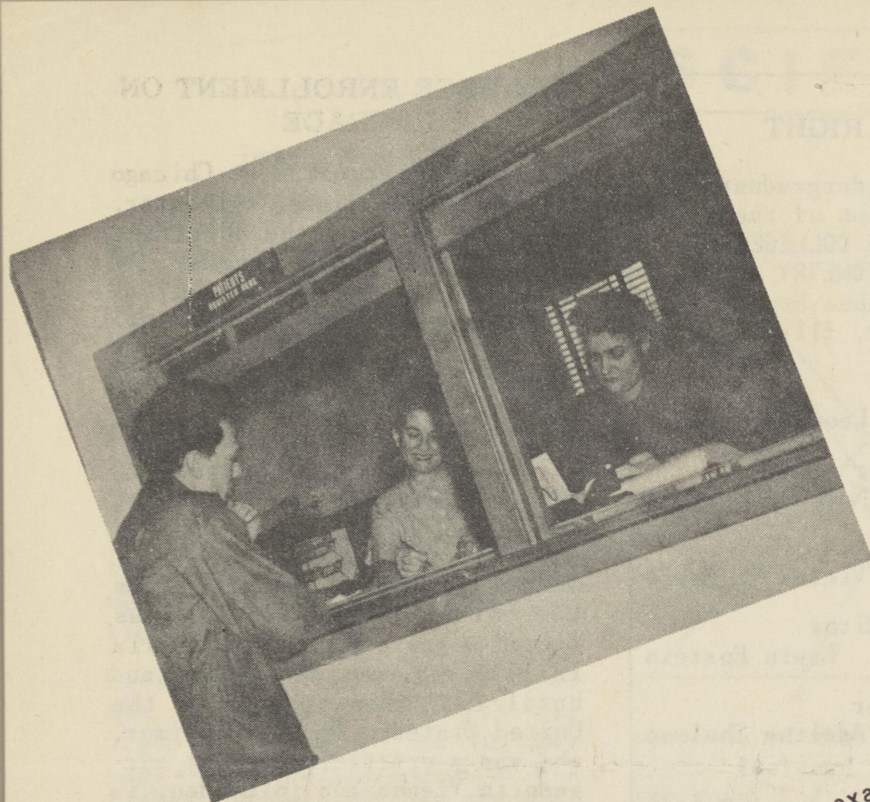
Mr. W. E. Hardy, editor of The Optician, British organ of the ophthalmic optician (optometrist) visited Chicago College of Optometry on his recent tour through optometric establishments of this country.



W. E. HARDY

Mr. Hardy, who is well known in optometric circles of both continents, commented favorably upon the curriculum, conditions and equipment which he found at the college.

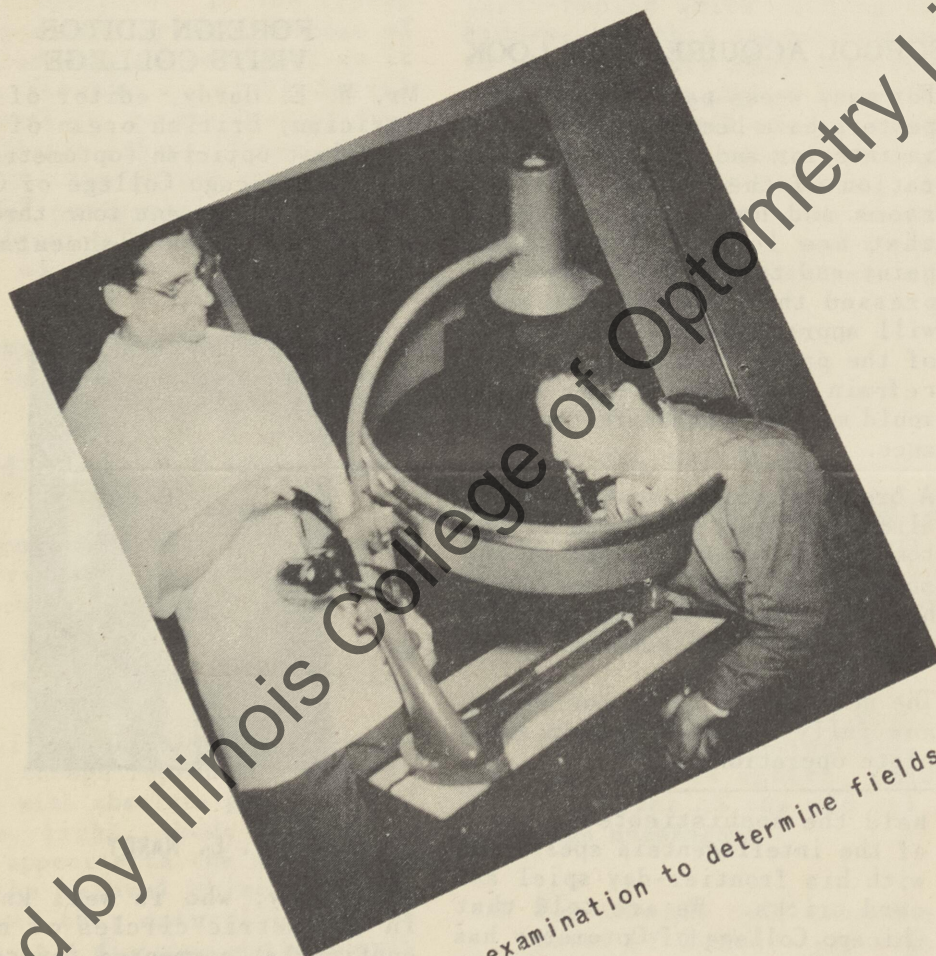




A patient registers for a complete examination with Shelby Wolfson and Connie Manos of the clinic's clerical staff.



Dr. Wodis, head of the College of Optometry, sitting in his office.



Perimetry examination to determine fields of vision.



Interns give an eye examination to a patient.

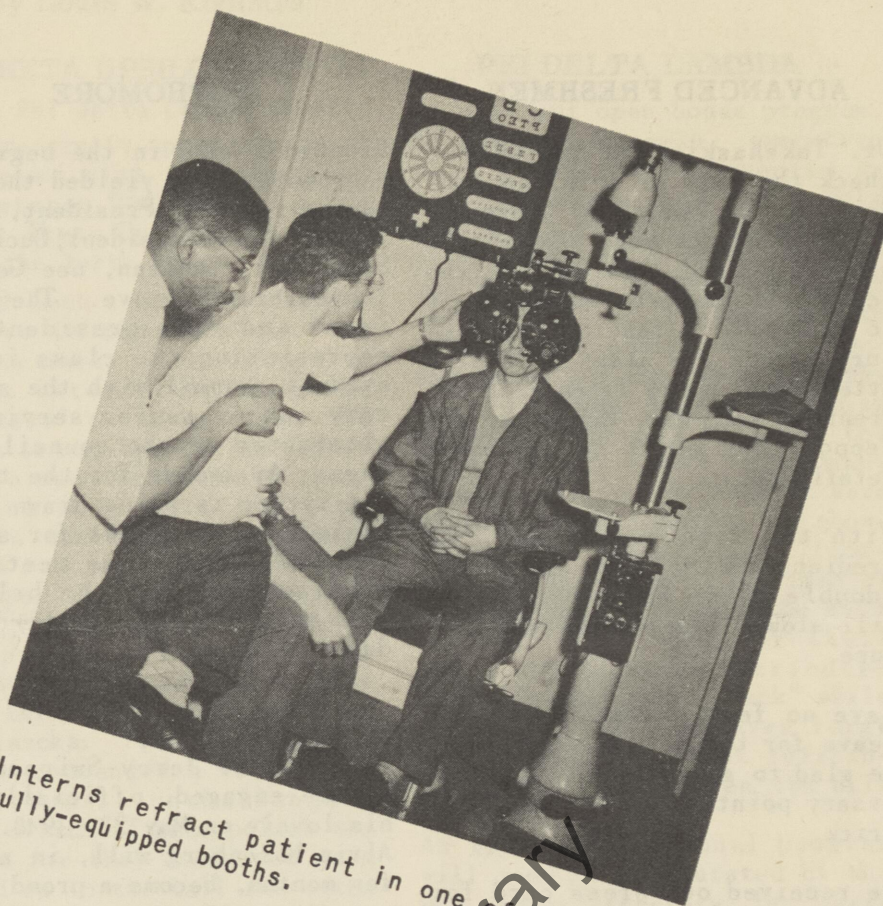




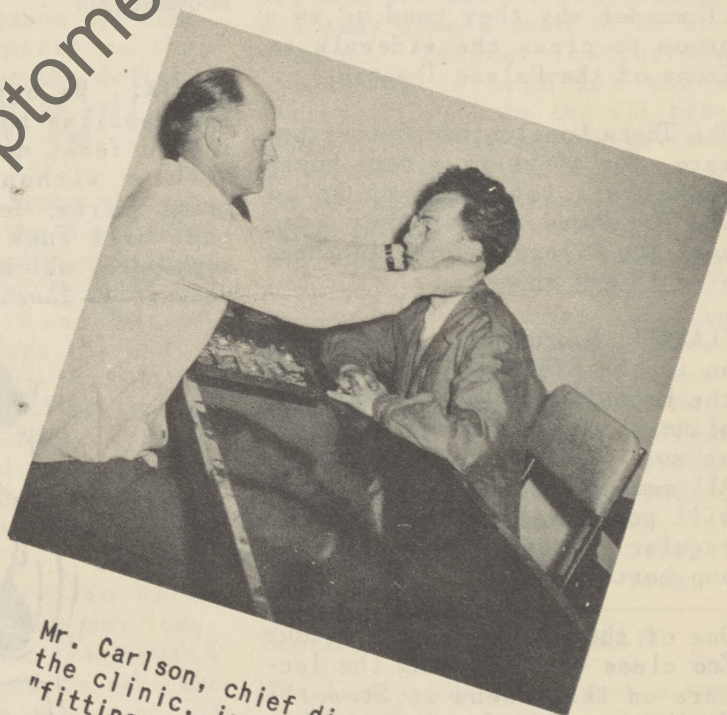
ofinic, Chicago Col-  
y, s a special refrac-  
ce.



e onc treatment to



Interns refract patient in one of the many,  
fully-equipped booths.



Mr. Carlson, chief dispenser of  
the clinic, in the process of  
"fitting and adjusting".



# Poop From The Group

## ADVANCED FRESHMEN

Dr. Takahaski, you had better check the list of enrolled students in the Sociology Class because there are more people than are registered. Aside from the occasional passerby who drops in to listen to a fascinating lecture, there are also in regular attendance, three friends of Dr. Brent: Janie May, Schmatska and Geppo. You ought to get more details on it.

With the finals now over, we predict that the Frosh "new-look" (double chins and baggy eyes) will slowly fade out of the picture.

Have no fear Roland, when you leave for U.M.T., the vets will be glad to give you all the necessary pointers on how to gold-brick.

We received our press card for EYES RIGHT and felt quite proud. That night we wanted to see the world preview of Fort Apache. We walked up to the ticket taker flashed our press card and kept walking. It took us ten minutes to clean the dirt off our suit. (I wonder why they used us as a broom to clean the sidewalk in front of the Palace Theatre.)

Phi Theta Upsilon had better beware, for there is a dark horse basketball team shaping up in the Freshman class; they even have the Oilers shaking in their size 13 gym shoes.

**FLASH!!** Recruiting is now going on in the EYES RIGHT office for the Brooklyn Brigade. They are planning to invade Wrigley Field as soon as "dem Bums" arrive. All members holding T.S. cards--will positively be admitted at regular prices. Bring your own pop bottles.

One of the brighter boys in our Zoo class was following the lecture on the amoeba in Storer's Zoo book. Mrs. Orent asked him if he didn't have a pencil or pen to copy notes. He said he was following her in the book. At that, she asked, "Does Storer follow me?"

## SOPHOMORE

Elections held in the beginning sophomore class yielded the following returns: President, Huntington; Vice President, Buchanan; Secretary, Shulman, nee Geller; Treasurer, Cosgrove. The president and vice-president are representing the class in the student council with the secretary and treasurer serving as alternates to the council meetings. An agenda for the term's activities is being drawn up to include preparations for social functions and class meetings. The meetings will be held at noon of the first and third Friday of each month.

### BY THE WAY:

Congrats to Jerry Swirson--he became engaged, officially, to his lovely on May 23, 1948..... Alvin Rosenberg will, in a very few months, become a proud papa.

**QUESTION:** What will Werner Jaeger do with all of his leftover quips, now that the class has dispensed with the English course? Heaven protect his roommates!!

**TRIVIA:** We hear that some of the Hawaiian boys had a typical island feast not too long ago. With or without the girls in grass skirts, fellows?.....Now that Bill Funk is an advanced sophomore, oh! how we miss those stenterian tones.

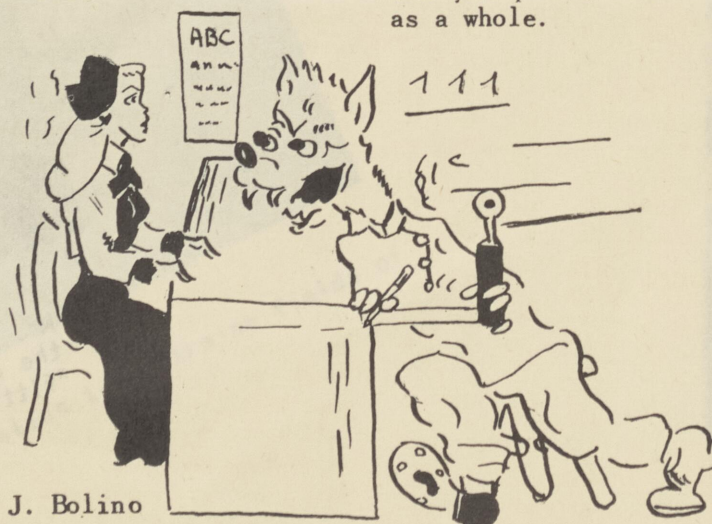
## JUNIOR

Father Time is catching up to a few of our boys in the form of birthdays. Forrest C. Wyckoff celebrated his birthday May 17, W.G. Davis May 18, James M. Harris May 29, Malcolm Lockman May 24, Ted Schwartz May 20. Many happy returns to all you celebrants.

We have a couple of busy men in our class. They are buying cigars in preparation for great events in their lives. Mr. and Mrs. Robert W. Beckman expect a boy or girl July 1. As yet no name, but nothing is wrong with the name "Bob." Mr. and Mrs. O. L. Stevens, Jr. expect their offspring about October 15. What name have you chosen, folks?

Remember when Joe Tague was absent from school? He married a lovely, Juliana, April 10 at Naperville, Illinois. Congratulations, Joe, and may all your days be happy.

Have you noticed a new group of white-coat docs around the clinic lately? They are our Sophs very busily learning all about the instruments and how to run some of the various tests. Some of the boys have taken the opportunity to do a little work in the clinic on their own. They have been giving orthoptic training to patients in the clinic. Gives them an opportunity to get more practice in and learn how to operate various instruments not yet presented to the class as a whole.



"MY, WHAT BIG EYES YOU HAVE!"



# It's Greek To Me

By Louis W. Kooistra

## 1 PHI THETA UPSILON

An unusual and colorful "Hard Times Dance" was presented May 8 in the gayly decorated club house of the Lincoln Park Boat Club by the brothers of Zeta Chapter, Phi Theta Upsilon International. The "gnu look" was the featured dress of the evening as the members and their ladies were entertained by the recorded music of Spike Jones and his City Slickers.

The summer season of activities will begin June 11, when the prospective pledges will be invited to attend an open house program held in Aldine Hall. All alumni are urged to attend as well as those members of the student body who are interested in affiliation with this, one of the oldest of Optometric fraternities. An excellent program has been arranged which will include an outstanding speaker of the profession as well as a well known entertainer. "Educational" movies will be shown and refreshments will be served.

Chancellor Forrest E. Wyckoff has announced that the following men have been presented gold keys and certificates of membership at a recent initiation ceremony. The new members include: William J. Buchanan, Irwin Rushfor, Fred Beckman, Edward Laszlo, Raymond Hudash, Leonard Daskiewicz, and Edward Germanos.

### PHI THETA UPSILON (54)

	P	FG	FT	PF	TP
Buchanan	F	2	2	3	6
Wyckoff	F	6	3	2	15
Wiejascka	C	4	0	2	8
Duke	G	3	1	3	7
Huntington	G	7	0	1	14
Nibert		1	0	0	2
Antonick		0	0	2	0
Perlmutter		1	0	1	2
Robinson		0	0	0	0
Total		24	6	14	54

### PHI DELTA LAMBDA (32)

	P	FG	FT	PF	TP
Rose	F	0	0	2	0
Drucker	F	4	3	4	11
Walsh	C	6	3	1	15
Cohen	G	2	0	2	4
Fogel	G	0	0	4	0
Diamond		0	0	1	0
Miller		1	0	1	2
Total		13	6	16	32

## PHI THETA UPSILON VICTOR

Defeat Phi Delta Lambda 54-32  
Inter-fraternity sport events at CCO opened with a basketball game between Phi Delta Lambda and Phi Theta Upsilon on April 18, at the North Avenue Y.M.C.A. Although both teams showed great interest in this contest the game was never close enough to make it interesting from the spectators' point of view. Of the two teams, Upsilon certainly showed a much better knit team. This solidity paid off many times on the type of play which found a man floating free under the basket and easily converting on the obvious pass. Phi Theta Upsilon took the lead in the first 40 seconds of play with a pretty twenty-five foot set shot by Wiejascka. From there on in, Upsilon commanded a lead which was virtually unchallenged. Lambda's lack of team polish was evident for they could not seem to hold on to the ball and often lost it before reaching offensive territory. The pace began to tell and at the end of the first quarter, Lambda slipped into the short end of a 9-5 count.

However, what they lacked in poise and team balance the Lambdas made up in spirit as they vainly fought to cut the deficit. They left the floor at half time a sweaty and weary team, trailing 29-22.

Phi Theta Upsilon broke the game wide open during the first minute of the third quarter on baskets by Huntington, Wyckoff and Wiejascka. Wyckoff and Huntington hit again before the end of the quarter and by this time, their heads-up, hustling type of play had assured their team of victory. A third period score of 39-24 showed that Upsilon had outscored Lambda in this quarter 10-2.

Big Lambda center, Jim Walsh couldn't take the pace any longer and at 1:50 of the fourth quarter was forced to take the bench for a well-earned rest. He had held his opposing man, forward Buchannan to six points for the game and amassed a total of 15 points for himself to share

## PHI DELTA LAMBDA

At a recent open house program, Dr. Eugene Freeman, executive dean of CCO, was presented an honorary membership and a gold key to the Phi Delta Lambda fraternity by the chancellor, Roscoe E. Rose. As the honor guest and speaker, Dr. Freeman gave an enlightening address on the contact lenses and also rendered many helpful suggestions to those members intending to enter the contact lens field. The many members and friends present were further entertained by the showing of old time movies: comedies dating back to the turn of the century. In keeping with the Gay 90's mood, brothers Payne and Lachman distributed "Peanuts and Cracker-Jack" while attempting to peer over large handle bars, as light refreshments were included on the bill of fare.

An alumni educational program will soon be inaugurated by the MCO alumni secretary, Dr. Harry A. Elson. This new activity of Phi Delta Lambda will present an evening of educational lectures in each of the following subjects: Analytical Optometry, Orthoptics, Contact Lens, The Art and Science of Dispensing, and many others soon to be announced. Eminent instructors are being secured for these series of lectures and all brothers of the alumni are invited to contact Dr. Elson in the near future as many classes are now being formed.

The annual spring initiation ceremonies saw the entrance of several new members into the brotherhood. The new members include the following men: Charles Drucker, New York; Norbert Kastner, New York; William Bradshaw, Pennsylvania; Arthur Percy, New York; Lester Pruden, Pennsylvania; Arthur Simon, New York; Martin Jacobs, New York; and Irving Linder, New York.

scoring honors with Wyckoff.

The last quarter was just a repetition of the previous play time with Upsilon continuing to pour it on.

Charles Drucker



## ACCREDITATION (cont.)

continue building a sound and a healthy institution. Recognition must be regarded as a privilege and a responsibility which involves constant vigilance in maintaining the highest standards in all phases of our school."

\* Following is the definition of "provisional accreditation", as set forth in the official statement of the Council on Education and Professional Guidance of the American Optometric Association.

"A school listed by the Council as 'provisionally accredited' will be identified as a new school which has not yet graduated its first class. After the first class has been graduated, the Council will reinspect the institution in question and take appropriate action."

## AIR FORCE (cont.)

may not, over an extended period of time, parallel that of the civilian practitioner, I do believe that military service as an optometrist can adequately supplement the beginning practitioner's training as the perfect internship for the procurement of valuable practical experience."

Lt. Dunn was chosen for his position with the Air Force among many applicants, representing other schools of optometry. He had been an officer with the Air Force during World War II. Lt. Dunn is a member and past Chancellor of Phi Delta Lambda fraternity.

## NEW BOOKS AS STUDY AIDS

Several books, designed to aid students to study correctly and to save students literally thousands of hours, were ordered by Dr. Ernest Takahashi, Dean of the college, and are now available at the library of the school.

"Effective Study," written by Francis P. Robinson, Professor of Psychology, Ohio State University, is one of the books acquired by the library. It contains tests, results and evaluations of problems arising from poor study habits.

"Does the typical student know how good he is in various traits? How poor he may be in others?" writes Dr. Robinson. Through the uses of "Effective Study," a student may, by taking one of several of the simple tests outlined, evaluate his own study habits and spot his weak points.

The other book now available at the library, is "How to Write Better Examinations," by J. N. Hook, Department of English, University of Illinois. This book is particularly designed for those students who know the subject matter required by examinations, but who are unable to apply that knowledge due to their inability to express themselves adequately.

The dean expressed the hope that the library would continue to be of great help to faculty and student body alike and also stated that he welcomed suggestions for improvements and suggestions for new books to be placed on order for the library.



Dr. Tobiasz

## DR. TOBIASZ HEADS STUDENT COUNSELLING PROGRAM

Under the guidance of Dr. E.C. Tobiasz, Department of Psychology, a student counselling program has been initiated.

As Director of Guidance, Dr. Tobiasz' duties will be manifold. He will administer all aptitude and educational guidance tests among which there are the Otis Self Administering Test for Mental Ability, the Michigan Vocabulary Test and a special test developed by Dr. Lauer of the University of Iowa for optometrists. Dr. Lauer's test is still on an experimental basis and students will be used to evaluate this test.

The part of Dr. Tobiasz' duties which deals with students individually, however, is the one which is of greater direct importance to the student body.

All students will be interviewed personally by the Director of Guidance at which time a personal history and other pertinent data will be recorded. This data will aid Dr. Tobiasz later in solving the problems that might come up during a student's scholastic career.

Dr. Tobiasz' office on the third floor will be open to students who have need for counselling, the objective being to help in removing any factors that interfere or that might interfere with scholastic performance.

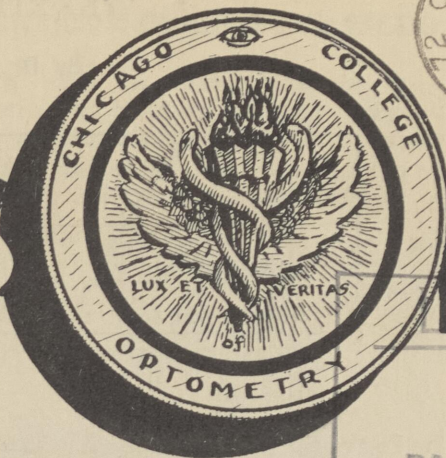
## STICKER CONTEST CONTINUES

The judges in the sticker contest, sponsored by EYES RIGHT, have asked for an extension of the closing date, so that all entries might be judged fairly.





# EYES RIGHT



Volume 2, No. 6

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PACIFIC UNIVERSITY  
FOREST GROVE, OREGON

August, 1948

## STUDENT COUNCIL SPONSORS PICNIC

Scheduled as the first in a series of school affairs, the Student Council of Chicago College of Optometry is sponsoring a picnic and student-faculty baseball game, to be held Sunday, August 8, at Caldwell Woods.

The winner of this game will be awarded a keg of beer. Details concerning starting times and directions will be posted on the bulletin board.

The following are officers and members of the Student Council:

- President - Clifford Dullian - Junior  
Vice-President - Robert Huntington - Sophomore  
Secretary-Treasurer - Malcolm Lachman - Junior  
Member - Jack Markow - Sophomore  
Member - Mark Bernstein - Advanced Freshman  
Member - Charles LaFont - Advanced Freshman  
Member - Kenneth Buhr - Beginning Freshman  
Member - John Hynes - Beginning Freshman

Students are reminded that the Student Council is their organization and that any student has the right and the privilege to attend meetings of the Council, even though he may not be a class representative.

It has been furthermore pointed out that suggestions by students for increased student activities and affairs are being welcomed by the Council. Such suggestions should be brought up at regular class meetings.

## EYES RIGHT EDITORIAL POST GOES TO SOPH



Leonard Drucker (L) Turns Editorship Over To Norbert Kastner

(EYES RIGHT Photo by Epstein)

With the commencing of the Junior year and with its increased schedule, curtailing extra curricular activities, Leonard Drucker has turned over the editorship of Eyes Right to Norbert Kastner.

Mr. Drucker has held the post of editor since December 1947 when the paper was turned over to him by Dr. Harry Elson, then a student at Monroe College of Optometry.

In turning the post over to Mr. Kastner, Mr. Drucker stated, "I would like to thank the staff of Eyes Right for the cooperation they have extended me in the past and I hope they will continue the good work in the future under the direction of the new editor."

Mr. Kastner, who is a sophomore at the college, comes from New York and has been active in news papers at New York's City College and Fort Bragg, N.C. He has also worked for several trade newspapers and has held publicity posts with various commercial firms. Mr. Kastner majored in English at the College of the City of New York and studied professional writing under Donald MacCampbell, former editor of the Atlantic Monthly, at New York University.

Other changes in the staff include the following promotions: Charles Drucker to Sports Editor, Erwin Epstein to Photographic editor, Milton Treiser and Harry Levine to Staff Writers; Charles Berman, Ernest Allen,

(Continued on page 8)

## STUDENT LOAN FUND ESTABLISHED

Realizing the plight of many students because of delayed Veterans Administration subsistence checks, Dr. Reuben Seid, director of the college has ordered the establishment of the Student Loan Fund. Applications for loans from the Student Loan Fund will be processed by Dr. Abram and Mr. Stein, the fund itself being administered by Mr. Stein, the school's comptroller.

Loans will be made in amounts up to fifty dollars and no interest will be charged. Loans are repayable within ninety days or upon the students' receipt of subsistence checks.

Both Veteran and non-Veteran students may borrow money under the provisions of the Loan Fund. The administrator of the fund stated that bad debts will be charged against the Student Activities Fund.



## ABSORPTION LENSES

by V. P. Amato

The eye, as we know, can automatically adjust the amount of light entering it, so that we may see, under a varied range of light intensities, without discomfort. The eye changes its sensitivity by a factor of 1,000,000. (The change in pupil size accounts for a factor of 50, and the changes in responsiveness of the retina, the remaining factor of 20,000.)

However, these adjustments are not instantaneous, as we may experience upon entering a dark room, or upon stepping out in the bright sunlight. Therefore, there is a need of a way of quickly shielding the eye from sudden exposure to high levels of illumination. The absorption lens remedies this need.

The light shades, because of their insufficient selective absorption in the visible spectrum, are no protection against glare, and therefore, will not be discussed here.

Absorption lenses of shade 1.5 to 3.0 are intended for protection from any smooth surface.

Shade 4 protects the eye from a glare of higher intensity and also from stray light from cutting and welding.

The darker shades are exclusively for industrial purposes.

Shade 5: For spot welding, light gas cutting, welding.

Shades 6 & 7: For arc welding up to 30 amperes, and for medium gas cutting, welding.

Shade 8: Heavy gas welding and arc welding up to 75 amperes

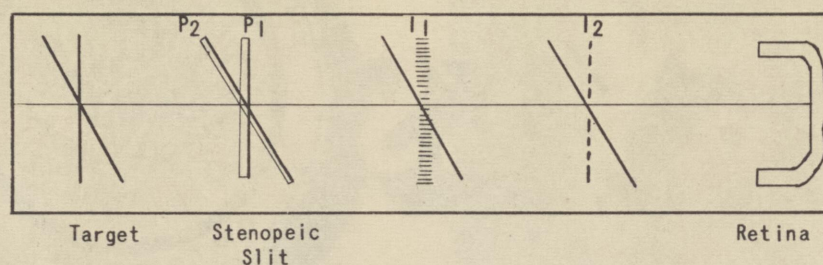
Shade 14: Arc welding over 400 amperes.

Absorption lenses for ordinary use are prescribed in shades B, C, or D, with shade C the most usual. These shades show selective absorption, and, therefore, the color is of importance.

For outdoor use, the yellow-green lenses give the maximum visual response, with the least color distortion, and eliminates glare.

## THE STENOPEIC SLIT

By Dr. W. L. Moore



Referring to Figure 1: The target consists of crossed vertical and horizontal lines at 20 feet. P<sub>1</sub> is the vertical position of the stenopeic slit and is assumed to coincide with one of the principal meridians of the astigmatic cornea. P<sub>2</sub> is the horizontal position of the slit, and, in this case, coincides with the second principal meridian.

I<sub>1</sub> is the target image in the vitreous, produced by the vertical meridian of the cornea. I<sub>2</sub> is the target image in the vitreous, produced by the horizontal meridian of the cornea.

All of I<sub>1</sub> is blurred due to its distance from the retina. I<sub>2</sub> is also blurred, but its vertical line image is the clearest of the four line images, because it is as close to the retina as any, and its arrangement of short line images of object points is such as to produce a sharper image.

Dark blue-green, and greenish yellow lenses absorb both the violet and red ends of the spectrum and accentuate the green.

Amber and brown glasses absorb the blue and violet, intensify the reds, and flatten the yellows.

Absorption lenses made to eliminate the ultraviolet and infra red are:

Noviweid: Shade 12  
Wilsonweid: Shade 3  
B & L Green: Shade 3  
Calobar: Medium and dark.

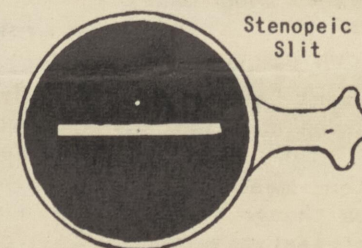
### Procedure

As the stenopeic slit is rotated there will be one position, P<sub>2</sub>, which gives the clearest image. In this case, it is the vertical line of I<sub>2</sub>. Other positions will give less clear images, all of which may be disregarded. The clearest-image position is the only one that need be considered.

That P<sub>2</sub> is the clearest-image position indicates that this horizontal meridian is the least refractive, and is, therefore, coincident with the axis of the minus cylinder that will correct the astigmatism.

This test is actually performed using, not a crossed line target but a row of letters that the patient can see moderately well under a slight fog. Having established the position of the slit which gives the patient maximum clarity of the letters used, we use this position as the axis of the correcting minus cylinder.

It should be noted that the above described condition constitutes astigmatism "with the rule".



Stenopeic slit disc

This device is an opaque disk than can be used in the trial

(Continued on page 5)



## THE HUMAN SIDE OF IT

by Norbert Kastner

### POLITICAL DEPARTMENT

While listening to the proceedings of the Republican Convention, we couldn't help admiring some of the speakers who, with emotion and glibness, passed off some debatable remarks as gospel truths. Such an ability, it seemed to us, would come in mighty handy when faced with questions in an oral quiz, the answers to which, shall we say - just escaped us for the moment.

### TRAVEL DEPARTMENT

On our recent trip to New York, we noticed one of our better-known Juniors in the Observation Car of the Pacemaker talking to a stranger he had befriended between Gary, Indiana and a highball. He soon started on his favorite topic, Optometry. He explained to the gentleman the rudiments of refraction and to demonstrate, went to fetch his newly issued diagnostic kit. Our Junior had read up on a few things for he explained to the stranger the meaning of glaucoma and other ocular diseases.

Bill, (we shall call him that to spare his feelings), the gentleman you spoke to on the Pacemaker, was one of New York's most distinguished Ophthalmologists and the author of a book of glaucoma!

### FLOWER DEPARTMENT

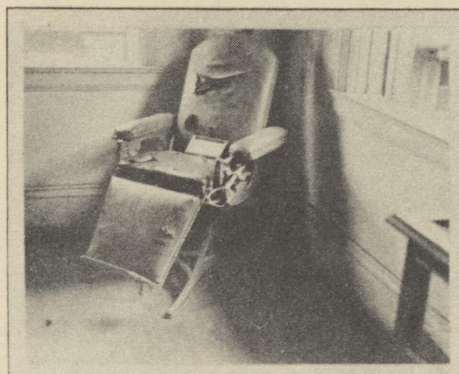
Our monthly bouquet of posies goes to Miss Shirley Cohen, the Registrar's secretary, better known as the "Sunshine girl", who manages a friendly smile even on a Monday Morning.

### MUSIC DEPARTMENT

Our favorite hangout, the College Grill, has done well to change the records in the juke box. After all, how much "Sabre Dance", mixed with Perry Como's "Because", could one take with a salad. One of our staff scientists is now working on a theory in which he wants to prove a direct relationship between music and the flow of digestive juices. Shades of Pavlov!

## ANTIQUE CHAIR AT CABILDO

On his recent trip to New Orleans, Malcolm Lachman. Beginning Junior, located an antique Ophthalmometric chair, used about 1800, at the Cabildo.



Ophthalmometric Chair ca. 1800

Eyes Right Photo by Lachman

The Cabildo is a museum located in the Vieux Carre, the French Quarter of New Orleans. This museum contains many other historical exhibits, including two ophthalmoscopes, used during the same era as the chair.

## SCRAMOPTICS

Try to unscramble the following Optometric and Optical terms.

1. GIVEREDENC
2. HORSEPAIO
3. SAPPREIOBY
4. FILCOBA
5. PILDIAPI
6. ARESTIA
7. SAMCOOT
8. NAVCECO
9. POMIAY
10. TOPERINGOA

(Answers on Page 8)

## INCIDENTALLY

Descartes, famous French philosopher who lived in the seventeenth century, developed the first practical theory of why human eyes adjust themselves for near and far seeing.

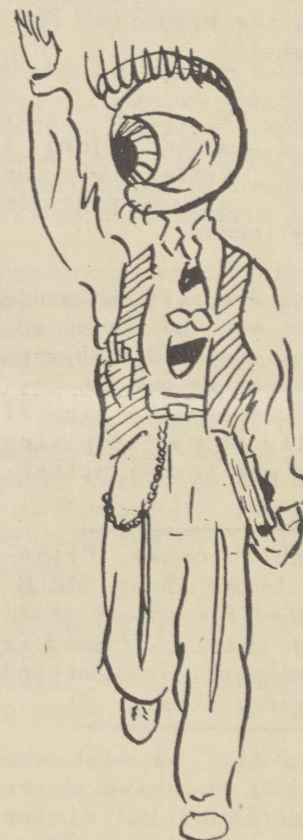
\*\*\*\*\*

One of the earliest treatises on optics was written by Euclid, who lived about 300 B.C. Euclid besides developing theories about how we see, also formulated the principles of algebra.

## JOE EYE

by Jerry Bolino

I have an eyedea  
that you'll be  
a'seein' me 'round  
from now on, so hows  
about an introduce?  
Me name is self-  
evidently, Joe Eye.  
I hail from anywhere  
U. S. A., and starting  
in the next issue of  
EYES RIGHT you will  
see me ss the typical  
C. C. O. studentia.  
You know that guy  
Jerry Bolino; well I  
first met him one day  
when I drooled out of  
his paint brush onto a  
piece of scratch paper.  
Then, Frank Rodgers came  
along and began to put  
thoughts into me head,  
with the results of what  
you now see.  
I'm making me debut next  
month, look for it.





## YOUR ANSWER PLEASE

by Milton H. Treiser

**THE QUESTION:** Where do you think it is best to open an Optometric practice---in a large city or a small town?

**THE ANSWER:** I prefer to practice A.M. Simon, in a comparatively small town, because New York only then can you hope to lead the true professional life, and maintain the doctor-patient relationship outside of office hours. With this in mind, the prospective Optometrist can gain a high degree of respect, due his worthy profession.

Jack Markow, My preference would be the big city since I am used to the rapid pace. However, I believe that a small town practice would be a short cut to a successful professional career because of less competition, and the fact that more people would be aware of the Optometrist in a much shorter period of time.

Malcolm Lachman, I have only one choice---God's country-Where? Where else, but Honolulu in the beautiful Territory of Hawaii.

Bud Schroeder, A large city Freshman would afford a better chance for a bigger practice and a steady income.

W.R. Fugate, A small town where you can become acquainted with most every one in town and assume responsibilities of the community by participating in business and social activities.

The Greek philosopher Pythagoras, who lived about 500 B. C., formulated the theory that in seeing an image is formed in the eye from particles emitted from the object seen.

Alhazen Abu Ali, an Arab who lived about a thousand years ago, studied binocular vision and made experiments on light.

## FROSH WINS STICKER CONTEST

Jose R. Calderon, advanced Freshman, was selected winner of the CCO sticker contest, and was awarded the book, "Transparencies of the Human Eye".



Jose R. Calderon

(EYES RIGHT Photo by Nurczyk)

Mr. Calderon's entry, was selected by the judges for its originality of content and its neatness of execution. The drawing shows an eye, covering all but the upper and lower ends of a caduceus. In a circle, around the insignia, the words "Chicago College of Optometry" are printed.

The CCO stickers will be ready for distribution in the near future.



Fourth Floor Interlude  
(Cartoon by Bolino)

## AN OPEN LETTER TO THE STAFF OF EYES RIGHT:

Some of the members of the Junior class wish to express their appreciation to you for the excellent job you have all been doing on our school paper.

When we entered the school in January of 1947, *Eyes Right* was little more than a mimeographed tabloid which was published sporadically. Under the circumstances, we feel that the staff did the best they could, but it never came up to the standards of the new *Eyes Right*.

Under the able guidance of Editor Leonard Drucker and Associate Editor Norbert Kastner, *Eyes Right* has become a truly fine paper. We feel that some small word of thanks should come from an appreciative student body.

Our sincere thanks and wishes for bigger and better papers go along with this letter.

Signed by 33 members of the Junior class.

*Eyes Right* deeply appreciates the kind words written by the Junior class and hopes to live up to their expectations.

## HELP WANTED

*Eyes Right* wants your articles of scientific value. This call for material is directed to instructors, students and alumni of Monroe College of Optometry.

All copy submitted must be typed on one side of the paper, double spaced and  $\frac{1}{2}$  in. margins on either side.

Articles not accepted for publication will be returned to the writer.

Cartoons, poems and articles of general interest may also be submitted for consideration.

Hermann von Helmholtz, German scientist, invented the ophthalmoscope in 1851. This device permits ophthalmic experts to inspect the inside of the eye.



## MONROE NIGHT CLASS GRADUATES

The emotions were well represented at the seventeenth Monroe convocation at which thirty night students were awarded the Doctor of Optometry degree.

There was joy and pathos and there was also surprise. The surprise came when Dr. Gilbert Lee Hicks, Dean Emeritus of the school presented Mr. Morton L. Abram, Assistant Director of Chicago College with the honorary degree of Doctor of Optical Science. This honor was conferred upon Dr. Abram for his outstanding work in behalf of optometric education.

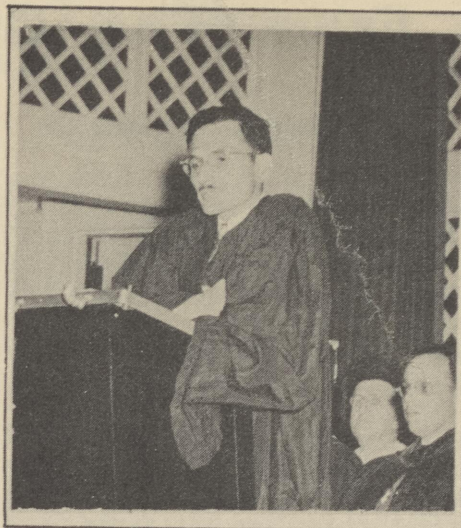
During March of 1948, one of the senior students, Harrison Lee Keil, passed away and his widow was on hand to receive the posthumous conferral of the Doctor of Optometry degree. There was pathos in the simple ceremony, when Dr. Abram handed the diploma to Mrs. Keil who bravely managed a smile as she accepted the scroll.

The valedictory address, delivered by A. Harry Coren, was by far one of the best ever delivered at a Monroe graduation. It had force and dwelled upon the responsibility the newly graduated optometrist has taken upon himself by accepting the Doctor of Optometry degree.

Other addresses were made by Dr. Abram, Clarence Albert Snyder, President of the Senior Class while the Commencement address was delivered by Dr. Eugene Freeman, Executive Dean.



Dr. Abram presents degree  
to Mrs. Keil  
EYES RIGHT Photo by Nurczyk



A. Harry Coren Delivers  
Valedictory Address  
Eyes Right Photo by Nurczyk

The following graduates were members of Kappa Phi Delta, Scholastic Honor Society: A. Harry Coren, Harrison Lee Keil, Arnold M. Thompson and Carroll L. Archer.

The last Monroe Night Class will be graduated in September. With the graduation of that class, Monroe College of Optometry will only be a memory.

Simon Dallas

### CODE of ETHICS

Eyes Right, recognizing the importance of the Code of Ethics of the American Optometric Association, herewith presents this code as the nucleus of ethical optometric practice.

It Shall Be The Ideal, The Resolve, And The Duty Of The Members Of The American Optometric Association:

To Keep in every possible way in collaboration with this Association, better care of the visual needs of mankind:

To Enhance continuously their educational and technical proficiency to the end that their patients shall receive the benefits of all acknowledged improvements in visual care:

To See That no person shall lack for visual care, regardless of his financial status:

To Advise the patient whenever consultation with an

optometric colleague or reference for other professional care seems advisable:

To Hold in professional confidence all information concerning a patient and to use such data only for the benefit of the patient:

To Conduct themselves as exemplary citizens:

To Maintain their offices and their practices in keeping with professional standards:

To Promote and maintain cordial and unselfish relationship with members of their own profession and of other professions for the exchange of information to the advantage of mankind.

### EXTRA OPTOMETRY SECTION OF MEDICAL SERVICE CORPS NEWS

As we go to press, word has been received from Major Ralph J. Richards, Personnel Division, Medical Service Corps, Office of the Surgeon General that the circular governing the commissioning of personnel in the Medical Service Corps Reserve will be sent to Eyes Right within the next few days.

Applications for commissions in the Optometry Section of the Medical Service Corps, together with complete information will be available in the publications office after August 5.

Applications will be processed by the Office of the Surgeon General, Department of the Army, as soon as they are received.

Roger Bacon, an English monk who lived in the thirteenth century, described the use of convex lenses to magnify small writing for persons with poor sight.

Stenopeic Slit Disk --  
(cont. from page 2)

frame. It has an opening, 1mm in width and 6mm in length.

To the Optometrist, it is an aid in refraction, in the determination of the astigmatic error and the axis of the correcting cylinder.



# Poop From The Group

## ADVANCED FRESHMEN

The Advanced Freshman Class elected its officers amid a ballot casting that paralleled the recent Republican Convention at Philadelphia. They are:

President: Mark Bernstein  
Vice-President: Charles LaFont  
Sec-Treasurer: Frank Rodgers

Turken Enterprises Incorporated: Anything from soup to nuts, but more particularly---pipes.

The fighting class baseball team is composed of the following students:

First base: Treiser  
Second base: Calderon  
Short stop: Seth and Reyes  
Third base: Finley  
Catcher: Lutsey  
Left field: Bolino and Novick  
Center field: Linder  
Right field: Cohen  
Pitcher: LaFont

It would appear that J.L. plans to write a sequel to "Lost Weekend".....getting experience the hard way?

Poor Ray Novick, he feels quite badly about his mark on his Physio-Chem. test. We, your classmates, also feel for you. Maybe someone else will get 100% beside you, when the final grade is "taken-twice."

Dear Jose---Where oh where did you ever learn that "Subway Trick"? Many affirmative remarks were heard within the room. Tell us more---Please!!!! Your Nature Loving Friends.

What happened, when in a certain class we were told we could go to the beach? All we have to say is "chicken". (P.S. Let him try it again.)

Frank Rodgers

Three cheers for our baseball team who recently beat Phi Theta Upsilon. Even after one of our stars was hurt, he went on to finish. His name...who else but Irving Golden.

"Have you found the Joy of Discovery?"

Jerry Swirson

## BEGINNING FRESHMAN

The lower freshman class got underway with the election of Johnny Hynes as Student Council representative. One bright frosh suggested that classes be held at the YMCA; seems that many of the students have made their residence there.

Our class is well represented by the technicians of Eye care. Many of the members of the lower frosh class are opticians, and one, James "One Man's Family" Jacobs, has his own shop. The presence of these students makes the discussions in English 131 very interesting. For the information of all students, Dalo will quote prices on bebop frames any day during lunch hour.

Schneier's theme song, "Beyond the Blue Horizon."

\$64 Question: What accounts for the popularity of the tune "Nature Boy" during Chemistry Lab?

Morton Berman

## SOPHOMORE

The mystery of the month centers around the question, "Who is 'Alias, Jerry Jones'"; which brings us to a second query. Would Charles Drucker know perhaps the derivation and scientific application of "Festarus Wisconsinensis."

Congratulations are in order for Julie Eisenberg who made the fatal step recently. Also to John Antonik we say the same for his engagement while at home during the semester break. And in the distance we hear voices yelling, "You'll be sorry".

It seems that our class debator Joe Meyer is going to be a father soon. Tell us Joe, do you think the child will be like you?

Don't forget you between 19 and 25ers, registration on August 16th. That means you too Captain Midnight.

## JUNIORS

The Junior class held class officer elections last month. Messrs. McConnie-president; Fugate-Vice president; Gumbel-Secretary; Rainville-Treasurer. Congratulations and keep up the good work. Incidentally, Gumbel and Rainville have monopolized office since the inception of class elections.

For the latest on what the well dressed girl wears, note Thompson's ties. His girl-friend gives them to him.

By this time the Juniors are a closely-knit bunch, but every semester, it seems, a new face appears. This semester we welcome as a newcomer Harry Levine. His ambition is to be admired, since he made the grade by polishing off many subjects last semester - and yet he still had time for extra-curricular activities. Nice going, Harry.

Rubin had the answer to beat the draft. He joined the National Guard and for proof I saw his first check. Hup - tup - thrip horp, Rubin.

Martin Jacobs, the voice boy, gave a solo at a concert recital Marty learns to read music at the Chicago Conservatory of Music.

Our class has quite a few Eyes Right staff members. Len Drucker is now the editorial advisor. Photographic editor - Erwin Epstein (The Fat Man) and staff photographer - Charles Berman.

Wilbur Purcell may be seen dispensing glasses at the Clinic. We like his professional attitude and proficient manner, being and optician.

Toney finally received his P. L. 16 after 6 months. Toney says "bring on the equipment now."

Mr. and Mrs. R. Beckman are expecting a boy or girl soon. Congratulations folks.

(Continued on page 8)



# It's Greek To Me

By Louis W. Kooistra

## PHI DELTA LAMBDA

Dancing under the stars, featured the opening of the summer calendar of social events for the brothers of Phi Delta Lambda fraternity. The beautiful Roof Garden of the New Lawrence hotel was chosen as the setting of the recent semi-annual Installation of Officers Banquet. An excellent dinner, an array of dynamic speeches, and an evening of moonlight dancing set the scene for the farewells to the retiring officers and the welcome to the new officers. Dr. Ernest Takahashi, dean of the college was the featured after-dinner speaker and highlighted the relationship of the optometric fraternity to the school and to the profession. The newly-elected officers were introduced by the retiring Chancellor Roscoe E. Rose. The new officers are:

Chancellor: William R. Fugate, Maine  
Vice-Chancellor: Malcolm Lachman, Hawaii  
Treasurer: Joseph D. Rainville, New York  
Secretary: Louis W. Kooistra, Michigan  
Sergeant-at-arms: Jack Markow, New York  
Steward: Victor P. Amato, New York  
Chaplain: Charles Thompson, South Carolina

Raul Reyes will be initiated in the near future and will be welcomed as a new member into the Phi Delta Lambda fraternity. In keeping with the rush season, the following were accepted to serve eight-week pledgeships before becoming active members in the fraternity: Abraham Cohen, Harry Levine, Ray Novick, Milton H. Treiser, Jerry Bolino, Justin Barchfeld and Joseph S. Shepherd.

William Hyde Wollaston, English scientist, in 1812 developed the concave-convex spectacle lens, an outstanding contribution to the ophthalmic profession. This

## PHI THETA UPSILON

Dr. George Jessen, one of the founders of the American Optometric Center and distinguished graduate of the Monroe College of Optometry, was the honored guest of the members and friends of the Zeta Chapter, Phi Theta Upsilon fraternity at their recent stag party held in the fraternity clubrooms. An outstanding illustrated lecture was presented by the honored brother with the entire assembled group witnessing the actual procedure in the process of fitting and applying a contact lens. The fraternity brother assisting Dr. Jessen in the role of patient received a pair of contact lenses for his services. The entire fraternity will benefit by observations yet to be made of the eventual outcome of this "case".

Included in the program were the "educational" movies which were enjoyed by many, and the refreshments which were enjoyed by all. The meeting was concluded with community singing. A beach party is being planned for the members and their ladies. The entertainment committee composed of: John Antonik, Raymond Hudash, and Leonard Diazkiewicz, is striving to promote many outstanding activities throughout the coming months.

Having successfully completed their pledgeships the following new members are welcomed into the fraternity:

Clinton M. Cravey, Florida  
Dennis L. Lamey, Mass.  
William Brace Jr., Mass.  
Brandon J. Leetz, N.Y.  
Milton G. Vlies, Wisconsin  
Jack S. Morgan, Texas  
Louis A. Baker, Alabama  
Donald J. Bye, Minnesota  
Wallace A. Grimes, Texas  
Andrew G. Serroka, California

type of lens is ground concave on one side, convex on the other. Wollaston also developed the reflecting goniometer.

# Sports

by Charles Drucker

## PENNANT ROLL UNDERWAY

The summer sports program has gotten underway at Chicago College with the opening of an inter-class softball tournament.

A generous and desirable action by the Student Council has resulted in a more than adequate supply of equipment. It can be seen that the spirit of most classes and student organization will help make this a successful sports event.

We have observed quite a number of students showing excellent ability on the playing field. Among these are: Charles LaFont, William Duke, and Irving Linder.

The Standings at this time are:

	W	L
Advanced Freshmen. . .	3	0
Beginning Sophomores . .	2	2
Phi Theta Upsilon . .	2	2
Beginning Juniors. . .	1	2
Phi Delta Lambda . . .	1	2
Beginning Freshmen . .	0	0

(As of July 24, 1948)

The games are being hard fought and cleanly played. Soon after the present schedule is played out, an elimination tournament will be undertaken.

It will be up to the individual student to support his class or fraternity team and attempt to raise it to a position of envy and honor.

It is hoped that the Beginning Freshmen will soon enter their team into the competition and fill the only gap in an otherwise perfect school sports set-up.



A tense moment in a Juniors vs. Frosh Game



## CO-DIRECTORS APPOINTED FOR CLINIC

Because of expanding curriculum, Dr. Ernest S. Takahashi and Dr. Hyman Wodis have been appointed as Co-Directors of Clinics. Dr. Takahashi's duties as dean of the school will be taken over by Dr. Eugene Freeman, Executive Dean.

Dr. Takahashi, because of his great administrative ability, and experience as an optometric educator, will direct the administrative and instructional divisions of the Clinic. Dr. Wodis will direct the out-patient department and will continue with his present academic duties.

Among the plans for the future activities of the Clinic are plans for extended facilities to schools, clubs, the general public and the YMCA. Dr. Takahashi is also planning a service to alumni which will enable graduates to refer difficult cases to the Clinic for re-examination and consultation.

### NEW EDITOR

*Continued from col. 3, page 1.*  
Goldfarb to Circulation Manager. Valda Pandey, who recently returned to CCO is also on the Makeup staff and in addition will handle library news.

Leonard Drucker will remain with Eyes Right in the capacity of Editorial Advisor.

*See Page 3, col. 3.*

### SCRAMOPTICS UNSCRAMLED

1. Divergence
2. Esophoria
3. Presbyopia
4. Bifocal
5. Diplopia
6. Atresia
7. Scotoma
8. Concave
9. Myopia
10. Gerontopia

Score: 1 point for each right answer. Analysis: 10 points: Go back to bricklaying. 1-3 points: See Dr. Tobolsky. 4-7 points: You'll get by. 8-9 points: You ought to be teaching this stuff. 10 points: Why bother with optometry; you could make a living as a genius.

## EYES RIGHT

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Staff Artist	Jerry Bolino
Makeup	Robert Irwin Valda Pandey
Staff Photographers	Ernest Allen Charles Berman Mel Furman Wesley Nurczyk
Class News Reporters	Morton Berman C. V. Dulian Frank Rodgers Adeline Shulman Jerry Swirson

One out of every ten men called for selective service during the war was rejected for active military duty because of eye troubles. One of every thirty was rejected for any war service. One man of every seven in the armed forces wore glasses.

### JUNIORS

*Continued from page 6, col. 3.*

Dr. Tennant had a difficult time convincing the Junior class there would not be a written exam. one day last week. Dr. Tennant stated, an oral quiz would be held but he came in with a bundle of important looking papers. The bedlam prevailed until the papers were distributed and proven to be homework problems. What nervousness and guilty consciences! Tsk, tsk.

Au revoir, and do drop class news items in the Eyes Right Box

C. V. Dulian

## NAVY INSTALLS EYE PROTECTION PROGRAMS

The Navy has authorized the installation of visual analysis programs at 78 shore stations in the U. S., Alaska, Panama, Pacific and Caribbean Islands.

The vision improvement and eye protection program will effect several hundred thousands of the Navy's civilian workers, according to W. John Kenney, Under Secretary of the Navy. Just as in industry, the high percentage of those who fail to meet the visual standards for their particular jobs will be rehabilitated through professional eye care.

The Navy's primary objective in setting up its new vision program is to reduce accident frequency and severity as a result of inadequate visual performance and to protect workers' eyes with safety eye-wear.

The accident prevention program will be of great personal benefit to thousands of Navy employees, many of whom have never realized their need for eye-care.

## CCO SCORES AT CONVENTION

The Photographic exhibit displayed by Chicago College of Optometry at the 51st annual Congress of the American Optometric Association, held at the Palace Hotel, San Francisco, evoked applauditory comment from the members and delegates.

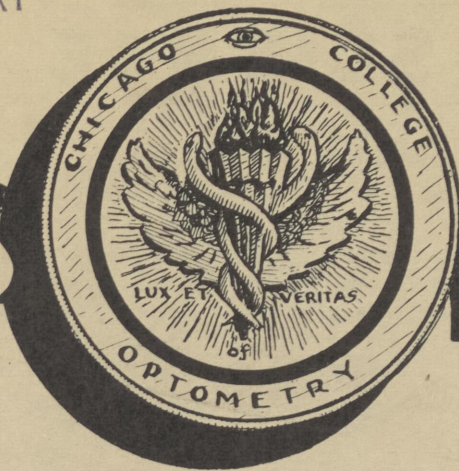
The exhibit showed CCO students at work and at play. The pictorial story brought out the superior equipment at Chicago College as well as the spirit which prevails in the relationship between the student body, the faculty and the administration.

Speed reduces the visual acuity of auto drivers. At 50 miles per hour a person sees 17 percent less than when travelling at 45 miles.

Green is the most popular color for sun glasses. But war flyers found rose smoke color better to distinguish between sky, ice and snow. On dull or hazy days amber lessens the obscurity.



# EYES RIGHT



Volume 2 No. 7

September, 1948

## A.O.A VOLUNTARY OFFICE INTERNSHIP PLAN

Few news items of optometric interest have created as much discussion and diversity of opinions as the Voluntary Office Internship Plan, sponsored by the Department of Assistance to Graduates of the American Optometric Association.

Theoretically, the plan is sound. It is designed to give graduates of the various schools of optometry the opportunity to observe and learn the methods of established and of successful members of the profession. It is designed to allow graduates to become familiar with the handling of private patients, economic set-ups and other fine points of doctor-patient relationship which normally cannot be learned in a school clinic.

At the same time, the plan guarantees an "earn while you learn" policy with the amount an intern can earn depending on his skill, adaptability and on his agreement with the optometrist in whose office he is serving his internship.

Vol. VI, Bull. #16 of the Plan, describes the financial angle in these words:

"For the first two weeks the assistant optometrist will be expected to just record the findings as the doctor gives them out, observe the handling of patients, familiarize himself with the office routine, the equipment, the nature of the training cases on hand, the techniques being used, and perhaps take some field or blindspot charts in order to get his hand in. For this period a minimum basic pay of \$25 weekly should be paid.

"After two weeks, if the set-up is satisfactory to both parties, the

## COLLEGE HEALTH PLAN ESTABLISHED



Dr. Harry Greengard  
EYES RIGHT Photo by Nurczyk

assistant optometrist should begin to take some of the training cases, some fields, visual skills, and possibly handle some of the refractions during the doctor's time out. For this the basic pay continues, to which is added sums for these other functions which he is now doing, as follows:

"Field Charts . . . . .	\$1.00
Visual Skills Tests . . .	1.00
Visual Training . . . . .	1.00
Thorough refraction and mounting selection. . .	2.50
Delivery (adaptation) . .	1.00
Progress Report . . . . .	1.00
Consultation . . . . .	1.00"

The Plan goes on further to increase the basic pay up to \$35 per week in addition to the items listed above and states, "On such a basis any

(Continued on Page 8)

Dr. Harry Greengard, Associate Professor of Physiological Optics, has been appointed College Physician for the newly established Student Health Program.

Dr. Greengard, a native Chicagoan, has the degrees of BS, MS in Chemistry, PhD in Physiology and an MD from Northwestern University. Prior to joining the faculty of Chicago College of Optometry, Dr. Greengard was associate Professor of Physiology at Northwestern University.

Each student, under the provisions of the Health Service, will be required to fill out a questionnaire pertaining to his medical history and he will undergo a routine physical examination.

The College Physician will be available at all times for emergency care and will also be available for individual conferences regarding matters pertaining to illness or general hygiene.

Requests for appointments should be made through the College office and patients will be taken care of on the college premises or at Dr. Greengard's office at 1150 N. State Street.

It has been pointed out that the Student Health Service will not cover house calls or extended treatment but will be confined to routine medical examinations, periodic check-ups and emergencies.

A semester fee of \$2.00 for each student enrolled in the program will be charged against the Student Health Activity Fee which is \$5.00 per semester. Notice.



# SCIENCE

## THE FIELD OF READING by Victor P. Amato

Optometry, today is greatly interested in experimentation in the field of reading. Training is now available for persons, usually children, who are poor readers, and experimentation still goes on to improve these methods of training. It is obvious that, in this day and age, reading is of great importance. A person is at a definite disadvantage if he cannot read well. It is only natural that the task of discovering the conditions of easy, efficient reading, should fall to the field of Optometry.

To read well, a person must see the print clearly, and must be able to read in comfort for a suitable length of time. Also the movements of the eyes along the line of print must be unhampered.

The optometrist dealing with orthoptics is aware of how a normal person reads so that he might be able to help the abnormal.

A person does not read in such a manner as to permit each letter of a word to strike the fovea in turn. In fact the eyes fixate at only a few points along the entire line, jumping from one point of fixation to the next. Therefore, a person uses an area of the retina outside of the fovea for reading, as well as the fovea. It has been found by experimentation that letters spread over 1-1/2 inches can be seen clearly at the same time, and that a margin of blurred letters surrounds this area. This blurred area is useful in that it gives the individual a clue as to what follows, and prepares him psychologically for the next group of letters.

The experienced reader makes maximum use of the span of clear vision and the margin of blurred vision, enabling him to fixate at fewer points per line than the inexperienced reader, who fixates at many points per line.

There exists this broad span of vision, supplemented by the less clear vision. Training have been given to the poor reader

to see more per fixation, thereby speeding his rate of reading.

Since reading is done in jumps, eye movements, while reading are saccadic, but are regular in their direction in that they follow the horizontal print from left to right.

It has been found that in poor readers, the eye movements don't adhere to the horizontal direction. There is a tendency for a vertical movement, and a backward movement. These regressive movements in the interior of a line indicate definite reading trouble.

Another fact that makes for poor reading is imperfect convergence. The two eyes, when changing fixation targets, do not keep in step. One eye may pause while the other is moving. This can be experienced by everyone. When the eyes are focused on a distant object, then shifted to a near object, the first attempt is likely to leave the eyes imperfectly converged, and the near object is seen blurred. This imperfect convergence can be experienced even when shifting the gaze from the end of one line to the beginning of the next.

Optical and muscular defects of the eye are directly related to eyestrain and ocular fatigue. Experiments on normal persons showed that the visual acuity decreases as much as 3 percent after two hours of reading. In another experiment, it was shown that the amplitude of convergence is reduced appreciably after prolonged reading.

In cases where there are muscular defects and neurological disturbances, the above physiological anomalies would be more pronounced. This would hamper the patient's ability to concentrate on the printed matter.

The field of reading is a large one and must be considered from many aspects.

It cannot be disregarded that reading ability is dependent upon intelligence, as well as sensory, perceptual and motor abilities.

Therefore, it must be expected that one individual will read faster than another individual, the two having the same visual apparatus. For this reason, each patient must be considered independently. A patient's efficiency in reading must be brought up to the best for his level of intelligence.

Also it must be realized that when experimenting in this field certain equipment and situations must be standardized. These are illumination, the type of printed matter, size, style of type length of lines, spaces between words and lines, and the kind of paper used as background.

Seventeen signals that disclose visual troubles in children:

1. Constant rubbing of eyes
2. Fatigue or listlessness shown after any continued eye-work
3. Frowning or scowling
4. "Hangdog" look
5. Watery eyes
6. Copying
7. Drooping head
8. Reddish eyelids
9. Squinting
10. Restlessness
11. Inattentiveness
12. Dislike for reading
13. Leaning over desk
14. Crossed eyes
15. Aversion to bright lights
16. Holding material wrong distance from eyes
17. Tilting head to one side

### DELAY IN OPTOMETRY CORPS APPLICATIONS

The article in the August issue of Eyes Right describing the latest official word from the War Department regarding applications for commission in the Optometry Section of the Medical Service Corps has caused many inquiries from alumni and students. A check by an Eyes Right reporter with the War Department has revealed that the information and applications promised for the latter part of July were held back because of "technical difficulties."

As soon as information is received, Eyes Right will mail mimeographed copies of the information to all correspondents.



## THE HUMAN SIDE OF IT

by Norbert Kastner

**HUMOR DEPARTMENT:** Always on the lookout for gags with an optometric tinge, we chuckled over the story, Hollywood's newest comedian Roger Price told over CBS recently. "My uncle Clarence", says Roger in his slow drawl, "has a fear of falling into molten optical glass." "But why", asks Mickey Rooney, who emceed the show. Answers Roger: "He is afraid he is going to make a spectacle of himself".

**RADIO DEPARTMENT:** Just in case someone in the public relations department of the American Optometric Association would be interested, we have some ideas for a radio program showing the true side of optometry to the great American public. We think optometry is ready for a national hookup and we have the script. The other professions are doing it and optometry shouldn't lag behind!

**VETERANS DEPARTMENT:** One of our bright boys came up with a good one the other day. Said he as we staked him to a cup of coffee in the College Grill, "If the Veterans Administration would be compelled to pay 5% interest on any subsistence allowance not paid sixty days after a student has entered a school, maybe Congress would start investigating some of the delays; especially the one where a CCO student's records were reported as "lost" by the VA. -- until an enterprising American Legion aid found the "lost" records buried under a pile of papers on the contact man's desk. The same guy who couldn't find them."

**EMPLOYMENT DEPARTMENT:** When one of our jokers heard the above story, he quipped, "Why if this keeps up, my wife will have to get herself a night job too! Not a bad idea, at that!"

**PERSONAL DEPARTMENT:** We want to use this column to fulfill a promise. We promised Bess, chief hostess of the College Grill that we would put her name in the paper and here it is: Bess! That, for taking such good care of us by not putting sugar in our coffee and by refusing to sell us Boston

## DISTINGUISHED VISITOR

Among the outstanding and distinguished members of the profession who visit Chicago College every month, was Dr. William Ketchum, the Past President of the Los Angeles School of Optometry. Dr. Ketchum who is Secretary to the Board and a past president of the California Optometric Association, was impressed with the equipment and set-up at Chicago College.

He visited several classes while they were in session and expressed his satisfaction with what he witnessed.

Dr. Ketchum also reported that the new building of the Los Angeles School of Optometry would be ready for the fall term.

## COLLEGE CATALOG OUT

After a delay in publication schedule because of technical difficulties, the official catalogue and Announcement of Professional Courses in Optometry of Chicago College is ready for distribution.

The publication covers all phases of curricular and extra curricular college work, the members of the administration and faculty, general information facilities of the college, admission procedures, academic regulations and the actual curriculum of study.

The catalogue covers the academic calendar until the beginning of the fall semester of 1949 and presents the first compact announcement of courses since the inception of Chicago College's Four Year Course.

Cream pie so that we may keep our waistline down--a very unique institution, indeed, that grill.

**ORTHOPTICS DEPARTMENT:** The bleary-eyed gentlemen in immaculate clinic garb, seen staggering around these Mondays, Wednesdays and Fridays, are not victims of a new ocular disease, but rather members of the sophomore class who were fortunate enough to get into orthoptics and who, between patients practice on one another. "O.K., fellows, I see seventeen cats on fifty fences; please can I go now?"

## ON THE SHELF

by Valda Pandy

A standard of living is the nature of habit.

You can improve the quality of your school work immeasurably by first analyzing your present study methods and changing those methods which are known to be ineffective. Take out a few hours a week that you definitely will give to study in the library and you will soon see an improvement in your class work.

We notice that during the day some students come into the library with their eyes almost closed and they can hardly drag themselves to a chair to slump down and catch a few winks of sleep. Remember that your library is not a place to sleep in but a place to study and to concentrate.

A good tip on good class recitation is to plan your library hours as close to your class recitation as possible. It is highly efficient to review class and lecture notes and do preliminary advance preparation immediately after a class if you have a free period.

The college library is well equipped to handle all study problems confronting a student. There are enough books on optometric and pre-optometric subjects to serve every student.

It would be wise to remember also that the library has the latest books which are designed to correct false study habits and which will answer the major questions:

1. What are my study weaknesses?
2. How can I improve my study methods?

Make proper use of your library and watch that average go up!

## PHI THETA UPSILON ELECTS NEW CHANCELLOR

As we go to press, word is received that Phi Theta Upsilon Fraternity has elected C. V. Dulian as Chancellor for the ensuing term of office. Further details and the names of other officers elected will be found in the next issue of Eyes Right..



## YOUR ANSWER PLEASE

by Milton H. Treiser

### THE QUESTION:

Do you believe it would be better to have a National Board of Examiners for Optometry rather than State Board of Examiners?

### THE ANSWER:

Philip Steinberg Certainly -- A  
New York graduate of an  
Sophomore accredited op-  
tometry college

should have the opportunity to practice anywhere in the United States. A set-up like this would advance the optometric profession and be of definite benefit to the public.

Ralph O. McConnie An Optometric  
Puerto Rico National board  
Junior of examiners is  
what all serious

minded and professional optometrists throughout the country should be working for. It would serve to standardize optometric procedure in the country and would at the same time, give every graduate a chance to select his state to set up a professional practice.

Bernard Lutzk I believe in  
New York states rights  
Adv. Freshman but where they  
rule the pro-  
fessions with an iron hand I believe that they are overstepping their bounds. An Optometric National Board of Examiners would be a marvelous thing. The way the situation is now, a fellow doesn't know what school to go to, for the state in which he may reside some day in the future may not recognize his school. With a National board, a practicing optometrist won't have to worry about another state board if he decides to reside in another state.

Robert Underberg Yes -- So a per-  
Florida son may practice  
Adv. Freshman anywhere in the  
United States  
without having to take forty-eight  
state board examinations.

## TWO STUDENTS GET TASTE OF ARMY LIFE AGAIN IN N. G. CAMP

The bugles sounded and the drums rolled again. The sound of marching feet, shouted commands, trucks rolling in a column of dust. The memories of the recent war stored somewhere in the mind came to the fore again.

The largest peacetime movement of the National Guard in the history of the State of Illinois was on with two CCO students, Dean Cavender and Harold Seth, Advanced Freshmen, taking part.

The two CCO frosh were with the Camp Ellis detachment. The first official act confronting the two veterans was the mop and broom detail since the barracks at the section of their camp had not been in use for more than two years.

Soon, however, army life was moving in its normal orbit, attempting to cram thirteen weeks of basic training into two short weeks.

A little heavy drama took place, when Harold Seth was on his first guard duty at the Motor Pool. While walking his post, he was attacked by an unidentified person who apparently was trying to steal one of the vehicles. The attacker struck Seth on the head with a blunt instrument which momentarily stunned him. Seth grabbed the assailant's foot and brought him crashing to the ground. The assailant, however, managed to break away and escaped.

Dean Cavender, a lieutenant, in the National Guard was an assistant instructor in various basic subjects and was also the instructor at the intelligence school teaching map reading, and familiarizing the recruits with security measures.

Both students returned to school none the worse for the two week "vacation". Lt. Cavender even reported having gotten back some of the muscles he had lost in soft civilian life since the war. Harold Seth, however, testified that a muscular biceps is not sufficient to solve trigonometric identities.

## FROSH FIND INTERESTING SCHEDULE IN ORIENTATION COURSE

Students entering the college, find the course in Orientation to be just another subject "we have to take to merit a sufficient number of credits towards graduation". These same students, upon completion of the Orientation course do something probably rare in the history of education: They cry for more.

The course is designed to give the student a general background for optometry. It acquaints him with optometric jurisprudence, economics, history; with the great men in optometry. with the musts and with the taboos.

Under the able guidance of Dr. Ernest S. Takahashi, the orientation course gives the student the opportunity to see, hear and feel optometry. There are guided tours through such optical laboratories as the American Optical Company and the Riggs Optical Company. There are speakers of the calibre of Drs. Newton K. Wesley, Jessen and Henry Wolfe. There are lectures by such outstanding personalities as Dr. Harry Pine, past president of the A.O.A. and the perennial and always interesting talk by Dr. Gilbert Hicks, dean emeritus of the college.

We believe that the value of the orientation course was summed up very well by a member of the freshman class when he said: "...the freshman class readily acknowledges the vast amount of information and education it has derived from appreciation of optometry as a growing, independent profession. As a guide to ethical, professional practice, the classes in orientation are heartily recommended to all present and future students of optometry".

Simon Dallas

ALL OUT FOR THE  
BASKETBALL TEAM!!

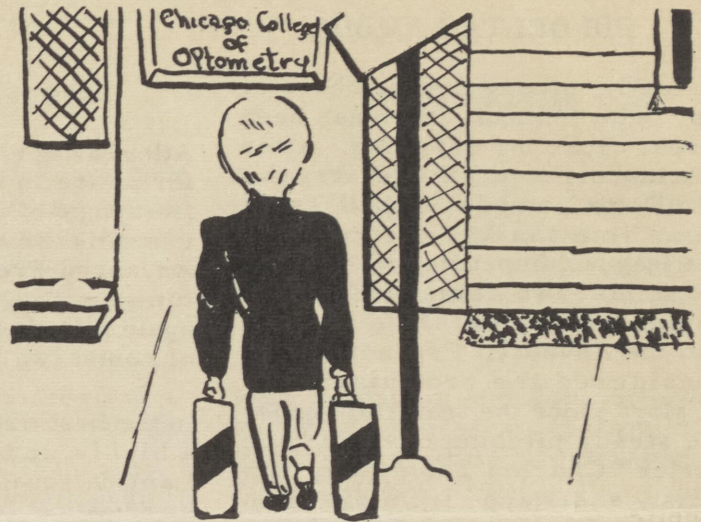


JOE EYE

by Jerry Bolino and Frank Rodgers



Hmm, guess, this completes the application. The Registrar said I would be notified immediately if I'm accepted, so here's hoping.



Here, at last! What the... Where is the campus? Oh, I suppose it is probably at the back. Now, to report to the Registrar.



After paying the registration fee, buy all the books, I've just got enough left for a game of pool. Wonder how long you have to be in to borrow from the Student Loan Fund?



Hmm, not a bad start. Wonder if she is engaged. Now to fill out everything in duplicate. Good thing I have enough credits to start as an upper frosh.



"Fellas, meet Joe Eye. He just got in." Glad to know ya, fellas. Tell me, is the course tough here? "It isn't bad pal; that is if you ride your poney right".



So Joe Eye moves into the YMCA. He looks pretty satisfied. He should, for he hasn't attended any classes yet.



## FRAT NEWS

by Roscoe Rose

### PHI DELTA LAMBDA

Recently, among the members of Phi Delta Lambda, there has been a real cause for rejoicing. After getting off to a slow start, the Phi Delta Lambda Softball Team came into the home stretch of the league competition to win both of its last two games. The last game, between Phi Delta Lambda and the Advanced Freshmen, was considered the crowning point of glory since the fraternity under the steady pitching of their "ace hurler" Charles Thompson, with timely assistance from his team mates, "calmly" defeated the Advanced Freshmen by a score of 7 to 4. Now, Phi Delta Lambda says: "Let's get going with the tournament",

Using the impressive gold key ceremony, Chancellor William B. Fugate, at the regular meeting of the frat, presented the keys of membership to eight night students of Monroe College of Optometry. The new members are: James A. Breen, Lester A. Kardos, Leroy Hirsch, Robert J. Walton, Clarence F. Bixler, Walter J. Taylor, LeRoy R. Malech and Edward G. Jassak. A session of important business was conducted by the chancellor following the initiation of these men after which the members enjoyed an evening of fellowship. Refreshments were served by the new "pledgees" of the fraternity. These "pledgees" are to be initiated into full membership the first meeting in September.

The fraternity is planning a "Watermelon Feast" in the near future for the members, wives and friends. The fraternity also extends its congratulations to Brother Norbert Kastner on assuming the editorship of "Eyes Right", and also to the retiring editor Brother Leonard Drucker for his work in developing the fine paper which the school has at the present time.

At the last meeting of the fraternity Drs. Morton N. Abram, M.A. Masuoka, Ernest S. Takahashi and E.C. Tobias were installed as honorary members. Drs. Abram and Takahashi in their acceptance speeches discussed the future of the college and disclosed proposed improvements to be made in the immediate future.

## Sports

by Charles Drucker

### SECOND ROUND STARTS

After having turned in a winning performance in the last game of the first round of the intramural softball tournament over the league leading Advanced Freshmen, tables were turned as these two teams were once again paired off in the second game of round two.

In the first meeting of these teams, a highly underrated Phi Delta Lambda squad showed its prowess by defeating the freshmen in a hard fought exhibition of soft ball by a score of 7 to 4.

Taking the initiative early in the game, Phi Delta Lambda, surged ahead with a three run second inning and from this point led throughout the game. Results of this game caused Phi Delta Lambda to enter into three way tie for second place with the beginning Sophomores and Phi Theta Upsilon. Although this was the only frosh defeat, of round one, they still were sure of first place standing.

#### Standings

#### Round One

	W	L
Advanced Frosh	3	1
Phi Delta Lambda	2	2
Beginning Sophs	2	2
Phi Theta Upsilon	2	2
Beginning Juniors	1	3

As might well have been predicted the round two eliminations were hard fought contests. The first game opened with the beginning sophomores matched against the beginning juniors. With their eyes on the coveted elimination championship, the sophs turned in a skillful exhibition in a overwhelming defeat of the Junior team by score of 10 to 1.

This was accomplished by the pitching abilities of Irwin Golden and the fine support offered by his team mates.

In the second game a frosh team, desirous of revenge sped away to an early lead in their half of the first inning. The four runs amassed at this time seemed to be quite enough since Freshman

Chuck Lafont pitched a brilliant no hit exhibition. With their respective victories in these two games, the beginning sophs won themselves a place in the finals.



SAFE!

EYES RIGHT Photo by Furman

### VARSITY BASKETBALL TEAM STARTED

With the basketball team of Chicago College almost a reality this is a reminder to the sports enthusiasts to start thinking about the forthcoming season.

Jacques Weiss, manager of the team has asked all prospective players to sign up for tryouts.

At the present time a tentative schedule for practice sessions is being set up. Practice games will be played at the North Avenue Y. M. C. A.

It is expected that the Student Council will approve an outlay of funds to cover the purchase of equipment and uniforms.

It is believed that Dr. E.C. Tobias, Student Counselling Officer, will accept the post of faculty advisor for the team. This post will be a liaison position between the members of the team and the administration.



# Poop From The Group

## BEGINNING FRESHMEN

The battle of the centuries is taking place -- of all places -- in Zoology where the Katz-Weiss combine has been under heavy fire.

Mel Schneir has been suffering with palsy ever since Dr. Tolboski put the double whammy on him.

Flash: The billiard emporium across the street is drumming up trade by setting up the house--Pepsi-Cola, that is.

Consult Ted Katz for definition of "Randolph Street Sun Tan". Incidentally, we heard that Ted set fire to the Randolph Lab. Inc. so that he would not have to go to work. Idle rumors, we say. . .

To Dr. Moore, the freshman class awards the "Cordon bleu" for teaching many of the frosh how to add, subtract, multiply, and divide. It's no joke, son!

The maneuvers of certain frosh at Mt. Sinai Hospital will go down in history along with the charge of the Rough Riders--Nursie, nursie, I'm getting worsie.

Why is it that spaghetti loses its appetizing flavor after one dissects the earthworm. Additional info: Since President Truman called for resumption of meat rationing several members of the class were seen sneaking out of Zoo Lab with a frog under their respective jackets.

Dr. Takahashi, please note: A member of the freshman class intends to open a jewelry store upon his graduation. Rank heresy, we say.

Ken Buhr is sending out an alarm regarding the freshman softball team. He can't see why ten fellows can't get out there once in a while. Where is your school spirit, huh?

Morton Berman

## ADVANCED FRESHMEN

After sizzling through the midterm examinations and with the finals just around the corner, most of us are looking forward with zest to the September vacation.

We are all proud of Jose Calderon who won the book "Transparencies of the Human Eye" for his design of the new CCO sticker.

Harry Seth and Dean Cavender who had left the files of CCO temporarily for the ranks of the National Guard, which was recently activated . . . returned from camp none the worse for wear.

All those interested in joining the No. 57 club, you can now make application in the Anatomy Lab.

Casualties: Ed Turken and Frank Lobart had an accident on their auto trip from Detroit. They were hospitalized -- Ed with a fractured clavicle and Frank with a broken leg. We all wish you a speedy recovery and hope that you will be with us again soon.

Now that we have learned how to make soap, alcohol, butter, and other useful items, there is talk of starting private enterprises to curb the runaway prices in this maddening metropolis.

The organic chemistry lab is an endless source of surprises: Berman is usually up to the ceiling in his experiments. . . . working to get a few grains of a yellow precipitate, his overheated solution exploded and landed on the ceiling -- he was running around long after trying to collect his precious precipitate.

The new comic strip by Jerry Bolino and your reporter is underway now and their intention is to have Joe Eye reflect our student body in all of its ramifications.

(Continued on Page 8)

## SOPHOMORES

We were just wondering whether or not being a sophomore should be written "suffer-more", or shouldn't we complain looking at our Juniors struggling through the rudiments of retinoscopy.

Your reporter and John Antonik were pretty lucky squiring their respective fiances around town.

"Take me out to the ball game" is the familiar chant of the class since we beat the Juniors 26 to 7. Let's all make sure we get out there and cheer.

In a recent class meeting the class organized into a more compact unit with a treasury and as assessment of dues for future social functions. Somebody referred to it as the "Buck a term" plan.

Class mate Kooistra is indeed a lucky fellow in that Dr. Tobias has a sense of humor and really practices what he preaches. It seems that during a remark made by the good doctor, Louis K. blurted out, "O.K. Pavlov" - his subconscious no doubt coming to the fore. Doctor T. just smiled using applied psych. and the class had a good time.

Here is a puzzle we can't figure. The other day two students who shall remain nameless walked down Larrabee Street. When we called the name of one, the other turned around and yelled "Here"! Wonder, why, Chuck?

The latest member of our class to join Eyes Right Staff is Arthur Percy who will cover sports. Arthur also does a little cartooning - still waters sure run deep.

Perhaps some of the members of this class could condition themselves (boy are we bucking for that A in psych) to let this correspondent have some of the gossip and or news our long ears can't reach.

Jerry Swirson



## POOP FROM THE GROUP

(Adv. Freshmen continued from page 7)

Raul Reyes and family had been living in their new home just three days before it was burglarized in their absence. The culprit wasn't satisfied with valuables; discharge papers, birth certificate, and Raul's two best suits were missing also. Some of us are planning a CCO Guard to investigate such atrocities.

*Editors Note: We don't think, that will be necessary, for as we go to press word has been received that the two burglars, had been apprehended by Chicago police as they attempted to rob another home. Raul Reyes was able to recover the greater part of his loss.*

**QUOTES:** Mr. Thuermer: "What, no objections from Mr. Nibert?" Dr. Moore: "Mr. Treiser, can't you hear that trig problem shouting 'Factor Me'?" Dr. Tobolski: "Perhaps I should have let my little daughter correct these mid-term exams."

Frank Rodgers

## JUNIORS

The Junior class one day, settled themselves to listen to a Theoretical Optometry lecture to be given by Dr. Katz. The "Doc" was doing fine giving the lecture but he had to be reminded he was giving Jr. Intern instead of T.O. But T.O. sounded like P.O.

In an interview with Dr. Greengard your reporter found out that the good doctor believes the juniors are a fine bunch of sharp fellows. He also stated that our group is more attentive and serious than the med students. Thank you, Doc. Lets keep up the good work.

To date Dr. Tennant still sends in a shy messenger to get chalk while Dr. Wodis is giving us the eye lecture. The Juniors are planning to take up a collection to replenish Dr. Tennant's supply of  $\text{CaCO}_3$ .

## EYES RIGHT

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## INTERNSHIP PLAN

(Continued from page 1, col. 2)

assistant optometrist could gain valuable experience and earn from \$50 to \$80 per week..."

This, in brief, is the theoretical aspect of the Plan. In its practical application, however, we must take into consideration some of the other factors involved.

The ability of the average optometrist to afford an assistant at the rates prescribed by the A.O.A.; the actual value of such an internship should the optometrist consider the intern merely as a clerk or should the intern have the attitude of "I can do as well as the optometrist or better," and thereby defeat the purpose and spirit of the Plan.

The American Optometric Association, of course realizes all these factors and has made strong appeals to optometrists and senior students at the various colleges. It is pointed out that, "...the primary motive of this plan is to assist the new licensee to ready himself to conduct his own practice by means of guided experience, which he may enjoy with no critical sacrifice on his part. It is not designed as a commercial venture to provide optometrists with another man to work for them."

It is felt in many optometric circles that while the Voluntary Office Internship Plan has definite merits, it should be merely an interim plan and a stepping stone towards the establishment of a centrally located refraction hospital.

The opinions and comments of the student body are invited on the Plan set forth in the article.

Messrs. Prudent and Barchfeld your columnist would like to know more about the beach and who the lovelies are that accompany you. What's up, Doc?

C. V. Dulian

- 8 -

Pacific University College  
of Optometry  
Pacific University  
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# RIGHT

Volume 2 No. 8

October, 1948

## WELCOME NEW STUDENTS

*An Editorial*

We look around us and we see you, the new students at Chicago College of Optometry. Some of you are shy while others have already befriended some of the "old" students. We look you over and we find that you hail from all parts of the country and that you represent all colors and creeds and we say to you: Welcome!

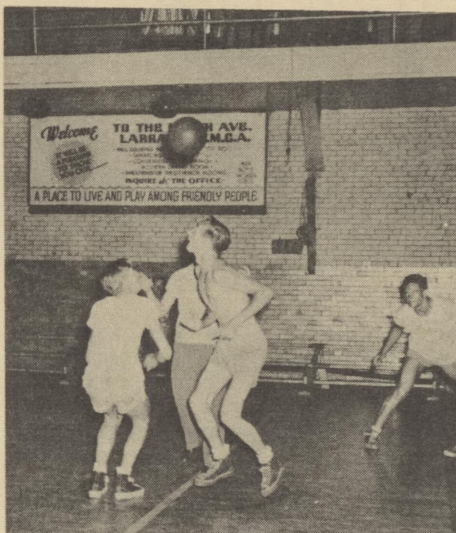
You might find your new school a little different from what you are used to; a professional school is different than the average college. You are here for a definite purpose and whether or not you make the grade - well, that's up to you.

What we really want you to know, is this. New students find it difficult in many colleges to integrate their activities into the already established groups, clubs, fraternities and other extra-curricular activities. Here at CCO, you don't have to look for us, for we are looking for you.

The freshman will find that the student council will want their representatives. In due time, one of the two fraternities will hold pledge periods and seek new brothers for their respective groups. The baseball and basketball teams are always on the lookout for good players; Eyes Right, your official publication wants writers, artists and general office help and should you want to form your own group - well all you have to do is to get permission from the Student Council.

For your convenience, help and guidance, the college maintains a Student Counseling Service, a medical and dental health program, and a student loan fund.

We all want to get to know you better and we want you to become an active part of all the school has to offer. Once more we say to you, welcome!



Varsity during practice

*Eyes Right Photo by Epstein*

## BASKETBALL VARSITY TAKES SHAPE

After several weeks of tryouts and training, Jacques L. Weiss, manager of the Chicago College basketball team, has announced that a fifteen man squad will be picked during the last week in October.

Several schools in the Chicago area have been contacted for games and a complete schedule will be published in the next issue.

Dr. E. C. Tobiasz, who has accepted the post of Athletic Director, disclosed that the team is very promising and with hard work and training should look well against any team in the area.

Training is held at the North Avenue YMCA gymnasium twice a week and applications for the team should be made to Mr. Weiss.

*(Continued from column 3)*

The clinic's program is an ambitious one. It is designed mainly to provide each student with a thorough knowledge of the various departments of the clinic and its relations to specific cases. The success of the realization of this program is insured by the men who are behind it.

## CLINIC SETS NEW GOALS

rectors and staff of the clinic of Chicago College of Optometry are developing plans for a unit which will prepare the student for his profession to the extent of making the CCO graduate the finest optometrist turned out by any optometry school in the country.

Among the outstanding points of this program are the coordination of classroom theory with practical application, the thorough familiarization of the intern with all instruments available in the practice of optometry and the establishment of a definite manner and procedure in the doctor-patient relationship.

Under the new program, the intern will be given the opportunity to lead his patient through all the phases of the examination and treatment as well as the actual dispensing of the lenses prescribed.

Orthoptics, pathology and perimetry records will be available to the intern for study, discussion and verification of results and technique.

The intern will be taught to handle each patient as if he were a private rather than a clinic patient. The watch word of "service" will be instilled in every student.

In order to increase its services to the patient, the clinic has initiated a public relations program which among other items consists of dignified institutional announcements in local newspapers.

Through its social service program the clinic is contacting religious and welfare groups to aid indigent cases with their visual problems.

The pathology department, under the care of a noted ophthalmologist is taking care of pathology cases referred to it by the interns and staff of the clinic.



# SCIENCE

## THE CORRELATION BETWEEN PRE-OPTOMETRIC SUBJECTS AND OPTOMETRY

By Dr. Joseph B. Gutstein, Asst. Professor of Optometry

In answer to the common question of optometry students as to the correlation between their pre-optometric work and their eventual professional strivings, we offer the suggestions that follow. We do not presume that we have touched on every phase of correlation but if this article will stimulate others to make further suggestions along the same line, it will have been well worth the trouble.

Everyone is familiar with the units of measurement (common to such courses as mathematics, physics, etc.) of the metric system. In physics, experiments are made using a ruler or vernier caliper or micrometer illustrating measurements of greater or lesser exactitude. Each one of these has its direct application.

The rule is used in measuring interpupillary distances -- long and short diameters of lenses -- bridge sizes and temple lengths, all but the last measurement being made metrically. The temple length is measured in inches.

The rule is also used more grossly in measuring lengths of refracting rooms -- sizes of mirrors when reverse charts are used -- measurement of the Snellen letters so that they subtend the proper angular sizes at the respective distances they are used.

The vernier caliper is a familiar instrument to every shop man for measuring lens sizes, sizes of steel formers used on automatic edgers, measurement of center lens thickness and edge thickness.

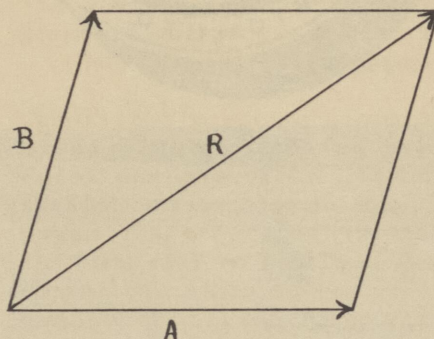


Figure 1 (a)

The micrometer is familiar to every optometrist in disguised form on the lens microscope (lensometer or vertometer) and the corneal microscope (ophthalmometer).

In diagram 1 (b), A and B can be two vector quantities at right angles to each other and R their resultant or A and B could represent two prisms with the arrowhead as the direction of their bases and R as their resultant. A and B of figure 1 (a) could represent cylinders crossed obliquely with each other, the lines representing the direction of the axis and the magnitude of the vector being equal to the amount of the cylinder, and the angle between R and B the direction of the new axis.

Some of our students have pointed out that vector analysis should be helpful in figuring out action of the extrinsic muscles on the bulb of oculi and such is the fact in actual practice.

Few instructors and even few practitioners are aware of the fact that the favorite physics experiment in simple harmonic motion (pendulum or moving weight on spring) can be directly tied up with optics. The graphic illustration of simple harmonic motion very closely resembles Southall's illustration of the harmonic range as special cases of the perspective ranges of points. The cases of reflection and refraction can both be shown to be special cases (harmonic range) of a similar phenomenon and we best develop this concept by a concept just a little more elaborate than the Simple Harmonic motion of elementary physics.

The classical answer which has been given us and which we have passed on in turn to anyone who asked about the practical usefulness of pre-optometric preparation is the old cliché: You have to crawl before you walk and you have to walk before you run.

This is still valid now as at the time when it had its origin but we hope to have stimulated more directly pertinent thought on the matter and would welcome concrete examples along the same lines.

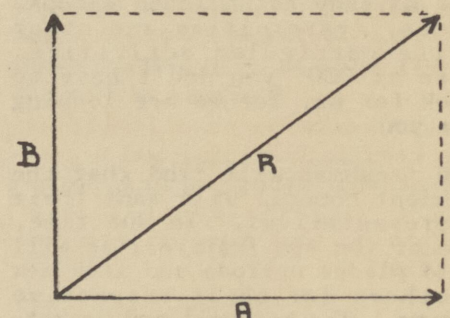
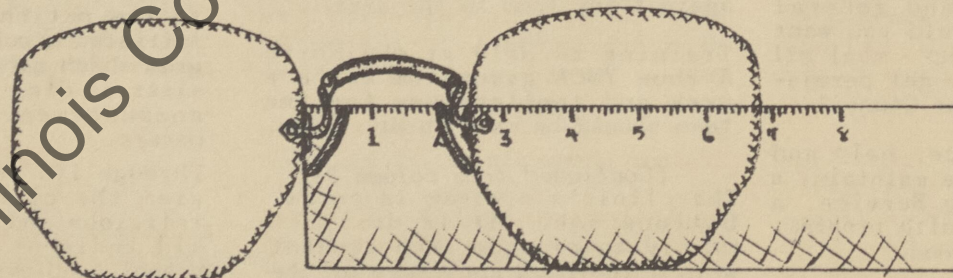


Figure 1 (b)



"The use of the rule in Optometry"



## YOUR ANSWER PLEASE

by Milton H. Treiser

### THE QUESTION

*What do you believe is the most important attribute in becoming a successful Optometrist?*

### THE ANSWER

Raul A. Reyes The most important attribute in becoming a successful optometrist is his personality and willingness to meet, make friends, and work with the professional men in his community.

Stanley Lacy The most important attribute in becoming a successful optometrist is to appreciate and be satisfied with the profession of optometry, and not attempt to overstep the boundaries of the profession.

John Christakos The optometrist who will be a credit to his profession is one who is fully aware of his primary obligation towards his patient, that is, the efficient treatment of his ocular defect, and is completely capable in exercising this obligation. Consequently the fundamental attribute in becoming an optometrist is a keen interest in, and a conscientious study of all optometric subjects as well as a healthy outlook towards ethical behavior.

W. R. Duke The most important attribute is for an optometrist to live up to his professional and ethical standards that are taught him while in school.

Robert C. Irwin The most important attribute in becoming a successful Optometrist, in my opinion, is to have the desire to become an optometrist and not an optimist and work to serve the patient and not yourself.

## EMPLOYMENT OPPORTUNITIES FOR ALUMNI

The college office reports that occasionally calls are received requesting licensed optometrists for positions.

Alumni, desiring positions, are asked to supply their names, addresses and telephone numbers to the college office so that their names may be placed on file and that they may be contacted speedily when positions become available.

### COLLEGE GIVES REVIEW COURSE

Complying with requests from many graduates, Chicago College of Optometry began its seven week review course September 20, 1948. The course which will conclude November 6, 1948 is open to graduates of all optometry schools, including licensed O. D.s and candidates for the State Board Examinations.

The course which consists of an intensive review of all subjects required for the State Board Examinations is under the direction of Dr. Wodis assisted by Drs. Tennant, Hess, Movitz, Katz and Masuoka.

Classes are held evenings and Saturday.

### DEAN APPOINTED A.O.A.

#### COMMITTEE MEMBER

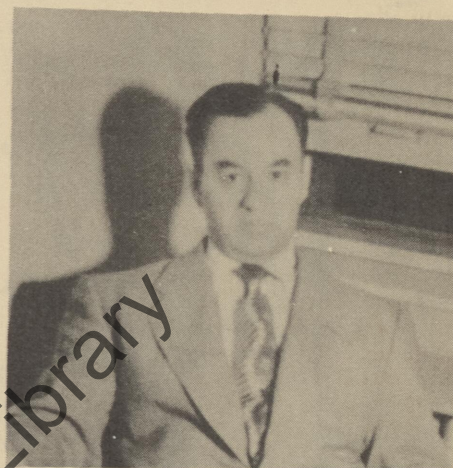
Dr. Eugene Freeman, dean of Chicago College of Optometry has been appointed by Dr. John B. O'Shea, president of the American Optometric Association, to serve as a member of the Committee on Student Counsellors.

In this capacity, Dr. Freeman will bring to the attention of the student body educational decisions made by the association and advise students on related plans and programs.

## DENTAL HEALTH PLAN ADDED

Enlarging the scope of the college health service, Chicago College of Optometry has enlisted Harry N. Perlow, DDS, as dental health officer.

Dr. Perlow, a graduate of the Dental School at Northwestern University, is a native Chicagoan and has his offices in the Lakeview Building at 116 South Michigan Avenue.



Dr. Harry N. Perlow  
Eyes Right Photo by Furman

The plan calls for a free initial examination during which needs for dental work will be established. Special fees will be charged for actual dental work performed. The dependents of students are also entitled to the special rates.

During World War II, Dr. Perlow was with the United States Navy where he attained the rank of Lt. Commander. He was the senior dental officer at Camp Bradford, Virginia and was also attached to the amphibious forces of the Atlantic Fleet.

### ANTECOTE

A college professor, known for his gruffness reproached a student for his failure to hand in his homework. The student excused himself by pleading that he had too much work to do to prepare



JOE EYE

by Jerry Bolino and Frank Rodgers



School days, school days.....I'm ready for anything. What a wonderful feeling to be pushing a school bench again.



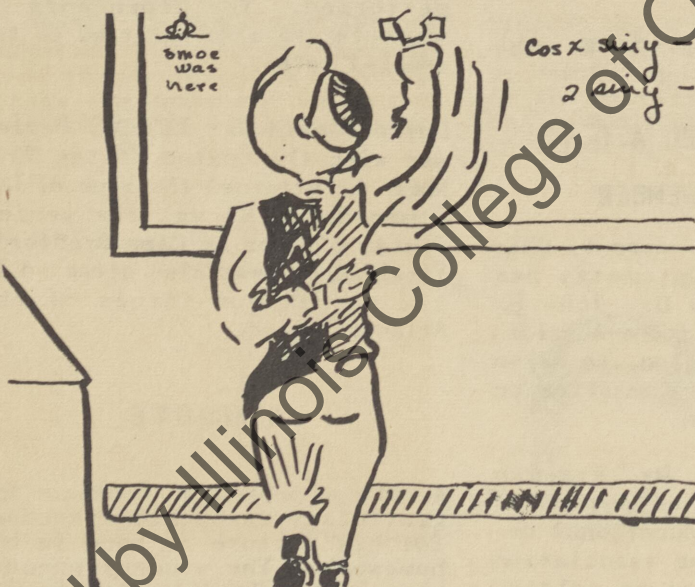
"The simplest method of synthesizing monosaccharides, is the oxidation of the hexahydroxy....." Whew, what a formal statement! Wish I had a recording machine!



Speech! Didn't know you had to be a public speaker to become an optometrist. This is the longest three minutes I have ever experienced.



Wonder if my brain is as large as that cat's brain. Wonder what happened to that pituitary body anyway.



There must be a way to solve this trig identity. Maybe if I turn it upside down and shake three times.....Who can tell?



What a day.....boy am I shot! Another hour in school and I wouldn't be able to go to work tonight---gotta work to cope with Chicago's high prices.



## RETINOSCOPE INVENTOR LECTURES



Dr. Jack Copeland

Eyes Right Photo by Nurczyk

Dr. Jack Copeland, inventor of the Copeland Streak Retinoscope, lectured to two Junior groups on Technique in Retinoscopy during the latter part of the summer semester.

Dr. Copeland's lecture was received with interest and amazement since students had not realized the extent of accuracy and flexibility to which static retinoscopy could be brought.

The lecturer amazed the Juniors particularly by neutralizing a student's eye to within  $1/8$  of a diopter on the sphere and within  $1/8$  of a diopter on the cylinder and with less than 5 degrees on the axis without the aid of lenses.

Dr. Copeland, who is head of the instrument division of the Bausch and Lomb Optical Company, also lectured to the Freshmen during their regular Orientation period.

## OPTOMETRY SECTION NEWS

The latest information available about appointment to the optometry section of the Medical Service Corps, Department of the Army is contained in Circular 210, dated 14 July 1948. Paragraph 62 is hereby reprinted.

"Optometry Specialists - a. For appointment as Optometry Specialists in grade of second lieutenant for service in the optometry section of the Medical Service Corps Reserve, applicants must have graduated from a school of optometry giving a full 4-year course acceptable to The Surgeon General.

b. For appointment in grades from first lieutenant through colonel, applicants must have had additional qualifying education or experience in optometry....."

It is believed that a commission in another branch of the service during the last war will help an applicant who does not come up to the standards of the requirements of Circular 210. Application blanks and further information may be obtained by writing to Major R. J. Richards, Personnel Division, Medical Service Corps, Department of the Army, Washington, 25, D.C.

### EYE KNEW IT

Over 80 percent of a child's school work is built around "close point" visual activity.

One school child out of five is retarded because of visual difficulties.

Young children are normally far-sighted.

Many children do not have sufficient visual maturity to begin reading until they are seven or eight years old.

## PICNIC HUGE SUCCESS

It happened towards the end of last semester, but they are still talking about it. After having been postponed because of inclement weather, the picnic was held three Sundays after the original date at spacious Caldwell Woods.

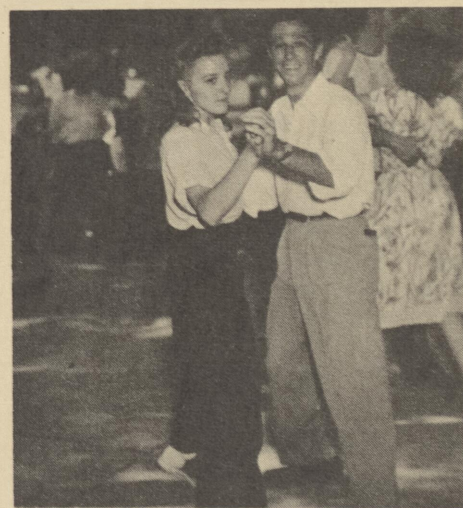
The weather gods were with the students and faculty of CCO and their ladies, for the skies were blue, the sun hot, but not uncomfortable and a tang of coming fall in the air that made the out-doors really pleasant.

There was enough beer to drown a regiment and John Antonik did the initial honors as bartender. One, Mr. Morton L. Abram, who has some connection or other with the school, came complete with off-springs, the better half and three-hundred pounds of ice.

There was also a student-faculty baseball game. Well, even the Dodgers have their off days. Besides we don't want to steal the sports page stuff.

Some of the picnickers used real imagination in preparing their food and the Mal Lachmans brought everything but the kitchen sink. One Arthur Simon solved his food problem by dropping IOUs into other people's lunch baskets.

The large and beautiful swimming pool was also well attended and some of the ladies eyed their husbands and beaux critically when they witnessed Robinson's diving technique.



Arthur Simon, the Polka King  
Eyes Right Photo by Nurczyk



# Poop From The Group

## FRESHMEN II

The firm of James A. Jacobs, Inc. announces the taking in of a new junior partner, to wit, Paul Christopher. This marks the fourth member taken into the firm since the conception of the partnership between Mr. and Mrs. Jacobs. Congratulations, Jimmy! From now on we shall receive our lectures on Embryology from a man of experience.

The class is also smoking Dr. Takahashi's cigars the doctor scored with a baby girl.

Ted Katz's pet hobby is smoking foreign cigarettes. Your reporter noticed weird smelling fumes coming from the region of his bedroom. Next thing you know he'll be sporting a fez. They don't call him "The Sheik of Larrabee" for nothing.

Ralph Weiss is so worried about these investigations on un-American activities that he uses only the black cards in playing solitaire.

Jack Hynes, the crew-cut boy, astonishes his friends by showing them a picture of himself taken overseas. On the photo, Jack not only has long and wavy hair, but also a vigorous red moustache. He says that the girl friend was responsible for the trim. "Greater love hath no man."

Roy Canary gave an emphatic speech in English class refuting the rumors that Kentuckians refrained from wearing shoes. We are still in doubt as to the location of Dogpatch.

To Earl Torrel goes an award for inquisitiveness. That boy is a veritable fountain of interrogation. Another "Oscar" to Irv Greenspon for muffing more chemistry experiments than any other frosh.

Several members of the freshmen class have remarked that it would be wise for this reporter to take out accident insurance. Could this be regarded as intimidation of the press?

## SOPHOMORE I

The vacation is over and those of us who were lucky enough to pass everything last quarter find that we are sophomores. The past summer seemed to have a thousand Julys and the Fall term is welcomed.

We are still wondering who bounded what wad of paper off whose head during anatomy class. Perhaps it was one of our basketball players who temporarily let his skill get the best of him.

Congratulations to Chuck and orchids to Mrs. Lafont, who had a bouncing "little stranger" sometime during the latter part of this month. This is the first for the Lafonts and we all wish them the best of luck.

Following a trig. exam, Dick Swartz remarked to Dr. Moore: "What's this supposed to be--entrance exam. to West Point?" The reply was, "No -- it's more like the West Point final!"

If you should hear a knock-knock on your door and find out it's a brush salesman, don't tell him to go away - it might be Ira Roland, who is now a part time salesman for the Fuller Brush Company.

Latest word received about Frank Lobert is that he expects to be back in school in November.

Frank Pleckas, who gives excellent three-minute speeches, had better watch out because he might be called on someday by some of us less fortunate public speakers to speak on our behalf -- that is provided he can talk about something other than beer brewing.

There were a lot of worried looking faces when it was discovered that a minimum of three hours were required to sign up for the draft at the local board. The school came to the rescue though, by setting up it's own facilities for registering eligibles.

Classes in Diff. Calculus, Analytical Geometry, Physics, and Physiology present us with a stiff schedule this quarter, so lets get off to the right start by beginning to study early and continuing to do so.

Frank Rodgers

## SOPHOMORE II

Quite a class, we upper sophs are. Alvin Rosenberg, C. B. Reeves and Joseph Myer are now proud fathers. Congratulations and the best of luck to them and their wives. By the way, Adeline, are you holding out on us?

To Doctor Finklestein goes the prize for finding out the cause of the dread disease called "Lumpuckaroo", known to be non-combat fatigue. And as long as we are on the subject of the good doctor, we are reminded that he asked the following question in physiology: "What happens to an optometrist if he puts drops in a patient's eyes?" To this Irv Golden replied: "He becomes an ophal- uh - opthal - uh uh oh, heck, oculist".

We like to dispense good advice once in a while and so to Doug Walck, won't you stay away from West Madison or she'll do it again.

Here is one we overheard after one of the final exams. We wish we knew who was meant. "He is the most thorough instructor we have in school; what he didn't cover in his lectures, he covered on the final exam...." To which we add, Amen.

Among the part time jobs which our class mates hold down, drug stores and shoe stores seem to be in number one place.

More advice: Those diagnostic kits you are going to get are not toys, don't play with them. Wait till you are told which hand to hold them in.

Jerry Swirson

## JUNIOR II

Dr. Tennant gave us a G.O. Examination; it resulted in the toughest problem being for the birds.

D. Bye acquired a pair of the famous contact lenses. At the time your reporter saw him, he was wearing the try-on or test pair. Surprising enough Bye wore them for four hours the first time. This indicates our boy is not of the nervous and troubled type. Best of luck on the new peepers, Bye.

(Continued on Page 8.)



# FRAT NEWS

by Roscoe Rose

## Phi Theta Upsilon

As the members of Phi Theta Upsilon had anticipated, they defeated all worthy opponents to win the softball league playoffs.

Oven #3 on Montrose Beach found the brothers of the fraternity, their wives and sweethearts enjoying a delightful and very pleasant evening under the stars and amidst the cool Lake Michigan breezes. Hot dogs, marshmallows, cokes, radios, and blankets were, of course, plentiful. Naturally a Beach Party wouldn't be a complete success without the usual corny jokes, and songs of yesteryear. All in all everyone had a swell time.

Thirteen pledges became duly initiated members when Chancellor Forrest C. Wyckoff employed the solemn and very impressive formal initiation ritual of Phi Theta Upsilon International. The new members are as follows: Frank Lobert, Robert Henderson, Harold Henderson, Alvin Hosenga, Robert Berkheimer, Ira Roland, Richard Federhar, Wilbur Purcell, Oliver Stevens, Leonard V. Musk, Ervin Musk, Jose Calderon. The old members of Phi Theta Upsilon wish to congratulate these new members and welcome them into the brotherhood of the fraternity.

Shirley Ekins, John Ball, and Curtis Gould were formally initiated at the regular meeting of the fraternity.

Recently, Phi Theta Upsilon has had an air of politics about it. It was time for election of new officers. Nominations were made, ballots printed, and a typical political battle ensued for the various offices of the fraternity. Finally the ballots were in and

(Continued on Page 8)



Forrest C. Wyckoff retiring chancellor gives fraternal hand glass to Cliff Dulan (left) Eyes Right Photo by Allen



A Beach Party Scene  
Eyes Right Photo by Epstein

## Phi Delta Lambda

The members, wives and guests of Phi Delta Lambda had a swell evening of fun at a beach party and Watermelon Feed at Montrose Beach. Everyone had a good time, roasting weiners and marshmallows; that is, after they finally managed to get the fire going in the oven. Next time they plan on taking along a Boy Scout and not trust these so-called "woodsmen". After eating watermelon, weiners, marshmallows, and drinking cokes, (Oh my poor stomach) they relaxed on the blankets and had a fine evening of fellowship, singing, and -- well you know the rest. "Artie" Simon couldn't resist dumping the excessive ice cubes on Jacques Weiss, one of the guests of the fraternity. The only trouble was that quite a few of them had already melted in the bag. Oh well, what's a little water here and there?

During the vacation between semesters, Leonard Drucker, and Charles Berman joined the ranks of married men. Our heartiest congratulations and best wishes to both of these men and to their brides. Your reporter heard that when Leonard Drucker became en-

(Continued on page 8.)

# Sports

by Charles Drucker

## FROSH COP CHAMPIONSHIP

After their overwhelming victory over Phi Delta Lambda, the beginning Sophomores drew Phi Theta Upsilon in their second game of the elimination contest. At this time, Beginning Soph Ace pitcher Chuck LaFont was benched due to a severe ankle injury. In this meeting, Phi Theta Upsilon took advantage of the break and made quite a few of their own to defeat the Beginning Sophs 21-1.

The Advanced Sophs had quite a buy. After their early victory in the Soph-Junior game as reported in the last issue of this paper, the team was idle till the day of the gala school picnic.

The day of the picnic found students watching a tense and hard fought game between the Sophs and Phi Theta Upsilon. The smooth and steady of the Upsilon pitcher Duke made the difference in this game. With the round two championship in sight, Phi Theta Upsilon put on the steam and edged out the sophs 5-4.

This same day found two other teams squared off on the diamond, students vs. faculty. It seems that the official scorer ran out of recording paper at this contest and therefore we cannot quote the score. However, let it suffice to say that age and experience had nothing on youth and agility. Faculty pitcher "Slim Freeman" was blasted out of the box early in the game and relief pitcher "Tiny" Stein was called in. It was too late to do anything about the outcome of the game, however, Students and Faculty left the game with thoughts of that refreshing beer. Hey! Look at that foam!

The climax of the season occurred in the final game of the contests which found a round one championship Beginning Sophomore team, pitted against a victorious round two Phi Theta Upsilon nine. This was one game that might certainly have been called a pitchers battle, for each team's hurler showed remarkable control and mound savvy. Phi Theta Upsilon squeezed across a run in the top of the first inning which was almost enough to win the game. This was accomplished by a walk and a double by Buchanan. After this early tally, Frosh pitcher LaFont pretty well allowed only scattered hits. But, every time that he did get into trouble beautiful team sup-

(Continued on Page 8.)



## SPORTS (Cont'd. from page 7)

port was given to him in the form of a few brilliant double plays. This wasn't a one sided pitchers game. Duke was putting in quite a fine exhibition of pitching and didn't allow a hit until the sixth inning when the Frosh scratched across a run. This game went into the eighth inning in a tie with the UPS held scoreless through the agency of a beautiful fielding play by Finley with two runners on to retire the side. In their half of the eighth, Linder singled, Reyes grounded out and Treiser layed in to a looping slow ball for a triple and the game. Result.... Beginning Sophs, Champions.

## POOP FROM THE GROUP

### Junior II (Cont'd. from page 6)

One of the particularly hot days, the Juniors couldn't take the heat and the end result was that Dr. Katz received a token of esteem from the class in the form of a small mountain of penny candy. Yes, the class got off early but not because of any bribe, but that Dr. Katz liked penny candy.

Abe Perlmutter and Art Simon gave their versions of how polish dances should be danced at the school picnic. They danced the polish dance more polish than polished.

Our good class mate Len Drucker, finally gave his all when he said "I Do" etc. at the Hotel Sheraton to Marilyn Cheskes.

We wonder how long Barchfelds car will last? Any day now we can expect to see him drive up with only a motor, frame, 4 wheels, and steering wheel. After that it should be time for him to get another.

Charles Berman, New York; took the "I do's". Congratulations and Happy days Chuck.

Brother Leetz missed his calling by not taking comedy roles. Watch him.

Until later, au revoir, and good luck in the new term. C. V. Dulian.

## EYES RIGHT

Official Undergraduate  
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## COME OUT FOR VARSITY

## BASKETBALL

- 8 -

## FRAT NEWS (Continued)

### PHI THETA UPSILON

counted and on September 1, 1948, the retiring Chancellor, Forrest C. Wyckoff, administered the installation ceremony to the following new officers:

Chancellor	Clifford V. Dulian
Vice-Chancellor	John C. Antonik
Scribe	Andrew G. Seroka
Corresponding Secretary	Earl R. Berkheimer
Exchequer	Richard H. Federhar
Guard	Jack Morgan
Chaplain	William Brace

Recently the officers of Zeta Chapter, Chicago College, were invited to visit our Brothers from Alpha Chapter, Northern Illinois College. The fraternity is also planning on inviting their brother chapter to visit us in the near future.

### PHI DELTA LAMBDA (Cont'd.)

gaged a few months ago he said to Marilyn: "Here darling, is a diamond for our engagement." She immediately said: "Oh, isn't it lovely! But it has a flaw in it." Len then countered with: "You really shouldn't have noticed it, my dear. You're in love, and love is blind." Marilyn replied: "Yes, but not stone blind." Congratulations are also in order for Brother Seaborn Reeves who recently became a proud father.

The regular meeting of the fraternity was a most memorable occasion to the "pledgees" who had been serving their pledgeship period as it was their initiation night. The moment they had all waited for was finally at hand. During the solemn initiation ceremony Chancellor William R. Fugate presented the key of the fraternity to the following men and welcomed them into full membership of Phi Delta Lambda: Raul A. Reyes; Puerto Rico; Milton H. Treiser, New Jersey; Raymond Novick, Illinois; Harry Levine, New York; Joseph S. Shepherd, Illinois; Jerry P. Bolino, New York; Abe Cohen, California. Following the initiation, refreshments were served to the old and new members after which a social evening ensued.

CHICAGO COLLEGE OF OPTOMETRY  
1849 Larrabee Street  
Chicago, 14, Illinois

Sec. 562 P.L. & R.



# EYES RIGHT



Carl F. Shepard Memorial Library  
Illinois College of Optometry  
2241 S. Michigan Ave.  
Chicago, Ill. 60616

Vol. 2 No. 9

November, 1948

## New Grade System In Effect

The grade point average requirement for all new work has been increased from 1.7 to 2.0. This is retroactive to Sept. 27, 1948. In evaluating the scholastic standing of all students in the College, the Dean's Office determines the grade point reserve or deficit as follows:

The total number of semester hours of courses completed at Chicago College is first determined. This figure is then multiplied by 1.7 to determine the minimum number of grade points that the student should have earned, prior to September 27, 1948, to remain in good standing. This total is then compared with the total number of grade points the student has actually earned to date, and the grade point reserve (or surplus) is then noted on the students record. For those students who have earned less than the required number grade points, and who are therefore on probation, the difference between the grade points they have earned, and the minimum number required is recorded on their record as grade point deficit.

At the end of this semester and every subsequent semester, any students who have no grade point reserve and who fail to make an average of straight "C", will automatically be placed on probation. However, for all students with grade point reserves or deficits, requirements for good standing will be modified accordingly, since it is the total accumulative average for all work completed at the College which determines either probationary status or good standing. Accordingly, before a student who is on probation can clear his probation, he must earn enough grade points beyond those required for a "C" average to clear his grade point deficit. A student who has a grade point re-

(Continued in Next Column.)

## Ophthalmologist Joins Clinic Staff



Dr. S. C. Udell examines patient in Pathology Clinic  
(Eye Right Photo by Nurczyk)

serve may drop below a "C" average during any semester without being put on probation provided that he has sufficient reserve grade points to cancel the deficit earned during that semester.

### EXPLANATION OF GRADE POINTS

- A, 4 grade points per semester hour
- B, 3 grade points per semester hour
- C, 2 grade points per semester hour
- D, 1 grade point per semester hour
- F, 0 grade points per semester hour

### RULE FOR CALCULATING GRADE POINTS:

Each course is listed with a semester hour value.

The total grade points earned in a given course is determined by multiplying the semester hour

(Continued in next column.)

Dr. Sam C. Udell, noted Chicago ophthalmologist, has joined the staff of Chicago College's Eye Clinic. Dr. Udell's appointment is in line with the Clinic's recent announcement of increased activity to benefit students and patients.

Dr. Udell, who received his M.D. degree from the Chicago Medical School, disclosed that he hoped to use the Pathology Clinic to demonstrate cases to the student body and also to discuss specific cases with individual students.

The Pathology Clinic, in the near future, will operate a dry dispensing section and minor pathology will be treated on the premises.

Dr. Udell who is on the staff of the Chicago E.E.N.T. and the Illinois Masonic Hospital is also Medical Director of Roosevelt College and has his offices at 116 S. Michigan Avenue.

It will be remembered that Dr. Udell was one of two ophthalmologists who toured India between October 1947 and February 1948, operating on some 2000 patients, most of which were cataract cases.

Dr. Udell's presence in the clinic makes it now possible for the interns to follow their patient from the original examination to the final disposition.

value for the course by the standard grade point value of the grade earned in that course. For example, suppose the student earns the following grades,

COURSE	Sem. Hrs.	Grd.	Pts.
101 Algebra	3	C	6
131 English	3	B	9
103 Chemistry	5	B	15
133 Sociology	3	B	9
141 Orientation	1	C	2
	15		41

(Continued On Page 8, Col. 1).



## Vitamins & Optometry

By Henry J. Frank, D.D.

Vitamins are minute substances, mostly originating in the vegetable kingdom, which are absolutely necessary for normal metabolic function and proper functioning of cells and tissues. They are, therefore, essential to good health.

Even though the function of several vitamins is still undetermined, science has unveiled the curtain of obscurity concerning the following: A, B<sub>1</sub>, B<sub>2</sub> consisting of Biotin, Pantothenic Acid, Nicotinic Acid, Riboflavin, Pyridoxine, C, D<sub>1</sub>, D<sub>2</sub>, E, K<sub>1</sub> and K<sub>2</sub>.

In Optometry we are especially interested in vitamins which directly influence the human eye. Vitamin A (also known as Antixerophthalmic Vitamin) is vital to eyesight. Diseases characteristic of Vitamin A deficiency are (1) Xerophthalmia, a dryness of the Conjunctiva combined with Keratinization of the epithelium. This disease starts in the lids and later involves the cornea. The Keratinization of the epithelium results in burning and itching of the eye. (2) Night-blindness, also known as Nyctophthalmia, is the complete absence of vision or a defective vision in the dark.

Good sources of vitamin A are fish liver oils, butter, eggs, cheese, liver, carrots, sweet potatoes, apricots, and bananas. Lack of vitamin B may cause Toxic Amblyopia which is a chronic affection of the orbital portion of the optic nerve or Optic Neuritis which is an inflammation of the Optic nerve.

Vitamin B<sub>1</sub> is present in rice, corn meal, flour and also in green vegetables, tomatoes, eggs and yeast.

A vitamin of the B complex family known as Riboflavin (sometimes called Vitamin G) is also essential to good eyesight. Deficiencies of this vitamin may result in certain ocular lesions. In mild cases of deficiency the examination with the slit lamp reveals a congestion of the ves-

sels of the lymphic plexus and the invasion of the subepithelial layer of the cornea by lux of capillary vessels. In a more severe deficiency, the vascularization of the cornea can be easily detected with the unaided eye. In the latter case the eye appears bloodshot; itching burning and lacrimation are present.

Photophobia, which is an abnormal intolerance to light may be due to Riboflavin deficiency.

Riboflavin is derived not only from yeast, milk, cheese and eggs, but also from liver, pork, beef, spinach and peanuts.

Some authorities claim that a deficiency in vitamin D (The sunshine vitamin) may be possibly indicated by Keratoconus, a conical protrusion of the cornea or progressive myopia.

Thus, it appears apparent that in the field of Optometry there is a constant contact with pathological conditions resulting from lack of sufficient vitamins. Therefore, it is imperative for the optometrist not only to be proficient in the field of optometry but also to be very familiar with the study of vitamins affecting the eyes, recognizing the effect of deficiencies of such vitamins.

### HOW TO FAIL IN LABORATORY WORK

(Continued)

8. Work as noisily as possible converse with your partner in the pauses of the work upon current politics or athletic records. Get thoroughly roused up and excited before you proceed with your work.

9. Do not take the work seriously. Explain frankly when you entered optometric college, you had no belief in the methods and results of refraction, but that you would like to know what is going on in the college anyhow.

10. Make it a rule always to be a quarter of an hour late for clinical work. In this way you throw the drugery of the preliminary work upon your partner, while you can still take credit to yourself for the regularity of your class attendance.

## How To Fail In Laboratory Work

By George W. Davis, O.D.

1. Assent readily, and with an air of complete intelligence, to all that the instructor says. Make no effort to understand his explanations yourself, but trust that some friend will explain it to you later.

2. Do not accept any general explanation, under any circumstances. Cherish the belief that your mind is different in its ways of working from all other minds, and that you must be individually treated.

3. See yourself in everything. If the instructor begins an explanation, interrupt him with a story of your childhood which seems to illustrate the point that he is making. If he is formulating a law, interrupt him with an account of some exception that has occurred within your own or your friends' experience. Go into the minutest detail. If the instructor inclines to reject your anecdotes, argue the matter out with him in full.

4. Call upon the instructor at the slightest provocation. If he is busy, stroll about the laboratory until he can attend to you. Do not hesitate to offer advice to other students, who are already at work.

5. Look very critically at the instruments that are put into your hands. Point out their defects to the instructor, and suggest improvements. Offer to spend the next few laboratory hours in the workshop, getting out a better appliance.

6. Never lose sight of the greater questions of the science in the petty routine of experimentation. If, the instructor is explaining the use of the campimeter, ask him whether optometry is not materialistic in tendency, or if he thinks that the results of optometry are of value for education.

7. If you are balked by an introspective problem that your partner has solved, either say that of course you had thought of that, but that it seemed too trivial to mention, or fall back upon the uniqueness of your mental constitution. Tell the instructor that science is very young, and that what holds of one mind, does not necessarily hold of another. Support your statement by anecdotes.

(Continued in Previous Col.)



# THE HUMAN SIDE OF IT

by Norbert Kastner

There was a time when we would walk around school and marvel at Art Simon's sartorial splendor. With the advent of the many new Students, Art has stiff competition.

In addition to that we notice an influx of collegiate attire in the form of turtle neck sweaters, flashy sport jackets and a sprinkling of rah-rah spirit which we hadn't experienced since the day we left a certain Eastern institution of higher learning.

\*\*\*

Far be it from us to slight our new co-eds. One must give credit to Dr. Stephens, our registrar - he sure knows how to pick 'em. Though few in numbers they have managed to join many of the extra-curricular activities with speed and ambition that puts many of the male students to shame.

\*\*\*

We are told that the Phi Delta Lambda musical Revue will feature a take-off on several of our more beloved professors. Gentlemen, we salute your bravery!

\*\*\*

When we spoke about clothing before, we failed to mention the other side of the sartorial picture. We, who wear our G. I. uniforms, salute you. The other day one of the classes looked like any army (you should excuse the expression) assembly.

\*\*\*

This month's bouquet of fall flora goes to Dr. Morton L. Abram for the efficient manner in which he handled the various housing problems of the new students. From the latest reports we learn that not one single solitary student had to spend the night in Lincoln Park.

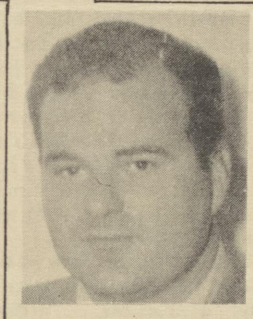
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## COMMUNITY FUND DRIVE SUCCESSFUL



Marli Rozner

and



Jack Markow

The Community Fund Drive at Chicago College of Optometry was headed by Marli Rozner, freshman and Jack Markow, junior, who acted as co-chairmen for the drive.

The campaign kick-off was marked by the appearance of Community Fund posters throughout the building, followed by visits to the various classes and appeals for funds by the co-chairmen. Class officers helped with the collections for contributions.

Judging from the amount of money turned in, CCO students really understood the need for their contributions. Mr. Markow summed up the response when he said, "It gives a person a wonderful feeling to know that he did something to help those in need of aid. We will never know exactly who was helped by our contributions, but every time we see a child enter a settlement house we will say to ourselves, 'my money helped keep that child off the street.'

"When we see a visiting nurse we will be thankful that our money made it possible for her to aid the sick."

The only thing certain about the fall fashion at CCO was the wearing of red feathers in hats and coats.

This space will be utilized each month to present a synopsis of the practice of optometry as governed by the laws of the various states, with information being obtained from THE BLUE BOOK OF OPTOMETRISTS, 1948, by The Professional Press, Inc.

## OPTOMETRY IN ALABAMA

According to latest census reports, Alabama has a population of 2,832,961 with 136 registered optometrists.

Every applicant to practice optometry in Alabama must be twenty-one years of age, a citizen of the United States and of good moral character, must be a graduate of an accredited high school and must have completed the course of study in an approved school, college or university of optometry which requires at least three years' course of study and must be able to pass the standard examination prescribed by the State Board of Optometry. Upon proper application, the sum of twenty-five dollars must be paid to the Secretary-Treasurer of the Board.

The standard examination consists of tests in practical, theoretical and physiological optics, in theoretical and practical optometry and in the anatomy and physiology of the eye and in pathology as applied to optometry. A second examination may be taken six months after the first, should the first examination be failed, without payment of additional fee.

License may be suspended or revoked on conviction of any offense involving moral turpitude, unprofessional conduct, gross intemperance in the use of intoxicating liquors or narcotics, or when the license or certificate has been obtained by fraud practice on the board, including violation of the Code of Ethics of the Alabama Optometric Association.

Should an optometrist, practicing elsewhere, desire to enter Alabama to practice he must have had three years ethical practice and the state in which he practiced must have standards comparable to that of Alabama.

Frank Rodgers



## YOUR ANSWER PLEASE

by Milton H. Treiser

### The Question

What do you think of the fact that a school basketball team has been formed.

The Answer  
Izzy Perlmutter  
Freshman I  
Detroit, Mich.

It's the sort of thing C.C.O. can use to give the student body a feeling of loyalty and union with the school. I think we should form as many teams as possible for all kinds of sporting and academic competition.

Marshall Johnson  
Freshman II  
Chattanooga, Tenn.

A team of any kind increases student interest in the school and helps to form a spirit of working together and cooperation. This work on the basketball team should be carried over into other sports and school activities. I believe a few dances and parties for the student body would be a mighty fine idea too.

Roscoe Rose  
Junior II  
Vincennes, Ind.

After having watched our team practice and play ball together there is no doubt in my mind that C.C.O. has a team that will be tough to beat. They deserve the support of every student and without that support, any team is hindered. The fellows have worked hard for months now so let's all be on hand to boost them to a victory in their first game.

Bob Chaby  
Sophomore  
Wilmington, Del.

The basketball team that is now formed is a step in the direction of thrilling school sports. Sports and spirit go hand in hand. In my estimation, that is what a school needs most. We all need to participate either actively or passively. But most of all the team is terrific.

## Dr. Barstow Visits College

During his recent stay in Chicago, Dr. Ralph Barstow, professional counsellor to optometrists in connection with the Optometric Extension Program, visited Chicago College of Optometry.

Dr. Barstow who recently published "How to Succeed in Optometry", had this advice to offer to the students of the college.

"Passing one's school exams is absolutely necessary, passing the State Board is a must, but the optometrist gets his real final examination from his patients". Dr. Barstow stated that he thought Optometry to be the most beautiful of all professions since it is clean, affords the practitioner regular hours and also because of the fact that all patients are ambulatory.

"There are two big jobs, an optometrist has to do", continued Dr. Barstow. "He must handle the visual problems of people who come to him and he must also create an enhancement of visual capacity of people, particularly school children, people who work with figures and all others whose eyes are used constantly in connection with their work".



Dr. Ralph Barstow (left) and Dr. Reuben Seid, President of C.C.O.

Eyes Right Photo by Nurczyk

By attending to these points with the greatest amount of skill an optometrist can muster, he will increase his own earning power as well as protect his patients and allow them to live a fuller and a happier life.

Dr. Barstow, a graduate of the Los Angeles School of Optometry, has a D.O.S. degree, is a member of the Distinguished Service Foundation, and Omega Delta and Beta Sigma Kappa fraternities. Dr. Barstow also disclosed that he had recently received an honorary membership in the British Qualified Practitioners of Optics and Optometry.

## Income Tax News

By L. S. Stein, CPA,

Comptroller

Even Congress in its great Income Tax code, recognized the importance of vision. Read it carefully!! You may save your patients large sums of money in Federal Income Tax by making them aware of these concessions.

For 1948 and later, a new \$600.00 personal exemption is allowed to a blind taxpayer. This takes the place of the \$500.00 deduction allowed in former years.

The exemption is allowed only if the taxpayer is blind at the end of his taxable year. A person is considered blind within the meaning of the tax law if "his central visual acuity does not exceed 20/200 in the better eye with correcting lenses, or his visual acuity is greater than 20/200 but is accompanied by a limitation in the fields of vision such that the widest diameter of the visual field subtends an angle no greater than 20 degrees." This special exemption is in addition to the taxpayer's regular exemption. Thus, a single man who is blind and who has no dependents, can claim a total exemption of \$1200.00. This figure includes the normal \$600.00 individual exemption and \$600.00 for blindness.

If both husband and wife are blind, the exemption of \$2400.00 may be claimed in filing a joint tax return.

On a separate return, the taxpayer may claim the exemption for blindness for his spouse if she (a) is blind, (b) has no gross income, and (c) is not the dependent of another taxpayer.

*Please note that the exemption for blindness cannot be claimed for a dependent who is blind.*

The "blind" exemption is a recent innovation in the Federal Income Tax Law. It behooves not only optometrists and other professional persons to become familiar with the rights and privileges granted to this type of individual under the Internal Revenue Code, but should stimulate student's thinking to a point where knowledge of the Income Tax Law is considered vital to their future. Optometrists aren't expected to become specialized in income tax matters. That field rightfully belongs to public accountants and lawyers. But a word to the wise is, of course, ample.



## BROTHER ACTS AT THE COLLEGE

It seems that optometrists want to operate in teams. At least the fact that we have so many brothers going to school would bear that out. There are Abe and Izzie Perlmutter from Detroit, Michigan. Izz will be married next January. Then there are the Hall twins, Dale and Gale from Marietta, Ohio. Incidentally Gales's wife is expecting Sir Stork. An other set of twins, freshly arrived at the school are the Taube boys, Gordon and Gerald who hail from Grosse Point, Michigan and play musical instruments.

Irving and Leonard Musk are old acquaintances from Fulton, Ill. We all know John and Jim Christakos who come from our good neighboring country Canada - Winnipeg, Manitoba to be exact.

Of course we mustn't forget Len and Charles Drucker who are both very active in extra curricular activities, the Heinze brothers Tom and Arthur from Kenosha, Wisconsin and Harold and Robert Henderson who are from Litchfield, Ill.

There are also three married couples, the Orents, the Pandys and the newly arrived Jayroes. No other school can make that statement. With men who know optometry best, it's CCO out in front. We could go on like this for days but the editor is giving us dirty looks.

Nonetheless we want to mention two more brother teams Raul and Ernie Reyes from Puerto Rico and Jim and Paul Richmond from this fair city.

## STUDENT COUNCIL NEWS

The Student Council of Chicago College of Optometry at their last meeting discussed various phases of student problems. At the request of the student representatives, Dean Freeman excused members of the basketball team from taking the regular course in Physical Education.

The Student Council will also hold a Thanksgiving dance at which the Freshman class will be welcomed. The date and place of this affair will be announced shortly.

The following are officers and members of the Student Council: Cliff V. Dulian, president; Robert Huntington, vice-president; Malcolm Lachman, secretary and treasurer.

Freshman I - Wesley Grace and Robert Walter

Freshman II - William Goldfine and Kenneth Buhr

Sophomore II - Robert Huntington and William J. Buchanan

Junior I - Clinton Cravey and Earl Berkheimer

Junior II - Jack Markow and Malcolm Lachman

## HOW WELL DO YOU SEE SIDEWAYS?

Applicants for drivers' licenses are tested in 33 states for their ability to see straight ahead, but in only 8 states for side vision, according to the Better Vision Institute.

Side vision is very important to a driver, but some people have what is called "tunnel vision," of a limited visual field which only includes the area directly ahead. Persons with little or no side vision are not a major problem to the licensing authorities, because they usually realize that their eyesight is imperfect and act accordingly. However, the Institute reports, those with only partly restricted side vision are frequently involved in driving accidents, sometimes because they are unaware of their visual deficiencies and sometimes because they ignore or try to conceal them.

The problem is similar to that of deafness. Partly deaf drivers are nearly always more dangerous than totally deaf ones, because the partly deaf are likely either to underestimate the degree of their shortcoming or to try to hide it, while the totally deaf realize their handicap and make effort to compensate for it.

In the same way, a person with seriously restricted side vision is aware of his condition and knows that he must be extra-vigilant in his driving - if he attempts to become a driver at all. He makes his eyes rove about, turns his head, and pays alert attention to traffic conditions ahead in order to anticipate complications.

Poor side vision may coexist with good central vision, and good side vision with poor central vision. Also, normal side vision may deteriorate from excessive use of common stimulants and drugs, as well as during periods of fatigue. (One scientist has reported instances in which a thirty per cent restriction took place in the side vision of one eye after four hours of work). Headaches, infected teeth, and sinus trouble are other possible causes of marked restrictions. The range of vision in drivers is generally measured only on the lateral or horizontal plane. There is little value in determining the vertical fields, since most drivers make scant use of the upper vertical field and the lower one has limited use because of the design of modern cars. (The seating arrangements and hoods of some cars permit only five per cent range of vision down on the vertical axis).

(Continued in Next Column.)

## FRESHMAN II

The Freshman class got under way with the election of class officers. The following were chosen to carry the class through its activities: President, James Jacobs; Vice-President, Donald Johnson; Treasurer, Morton Berman. The office of Student Council representative is still in the hands of Kenneth Buhr.

Speaking of Ken Buhr we note that since he had his tonsils removed, he has been allergic to all the chem experiments. In fact, he is a walking advertisement for the song, "I Cried for You".

We find the freshmen students who did so well in algebra last semester are having a bit of trouble with trigonometry. "You call them identities", they shriek, "to us they're complete strangers." Certain students have come to the conclusion that Dr. Moore has a little comptometer in his head that enables him to derive the correct answers.

Mel Schnier has finally learned the correct pronunciation of the term "retinoscopy"; that puts an end to the barrage of erasers Dr. Tobolski has hurled at him. Oh, well, it was fun while it lasted.

CELEBRITIES: Frank Uriyu is, believe it or not, a judo expert. He holds a third degree black belt, competitive. For your information the black belt is the highest rank in all judo-land. Moreover, there are only eight degrees to the black belt; this puts Frank right up there in the big league.

Before we sign off, we want to put in a word for the class administration. Our class can and will get a lot accomplished if everyone does his part. This means attending the class meetings; they take only fifteen minutes of our time but the work accomplished goes a long way.

Morton Berman

## HOW WELL DO YOU SEE SIDEWAYS?

(Continued)

Every driver who wears glasses should make sure that they do not interfere with his field of vision. Unusually wide spectacle frames or temples can block side vision dangerously, but skilled optometrists help their patients to choose styles that are scientifically sound.



# Poop From The Group

## FRESHMAN I

This semester has found a large beginning freshman class. As yet, we don't know all of our classmates, but we believe great things can safely be predicted. We will do our best to make CCO proud of us.

Congratulations to Student Council representatives Wesley Grace and Robert Walter who won out over William Goldfine and William Ball, alternates. Would you consider lending us the two-headed coin, boys?

Dr. Tobolski gets our vote as the cynic of the month. The wise one claims that outside of every valley, you will find scattered settlements, such as a man and his mother-in-law. "This group comprises a nut house...." sayeth he.

What's wrong with Hy Tovstein? Is he ashamed of his name or what? At any rate, Hy, you do put your name on your papers, and if you are a veterinarian, you had better not write down the degree which you think you would hold. It just doesn't look right!

Sandy Peltzman's opinion of Chicago has been lowered ever since he tried to get a part-time job at one of the loop department stores. Don't know why, though; after all, someone has to tell people how to get on and off escalators.

Now we've seen everything department: Mrs. Billie Jean Jayroe, Rosa Wieshuber, Marilyn Kroll and this reporter signing cards for the YMCA. Thinking of living there or joining the basketball team, girls?

Speaking of the gals at school, here is fair warning to all: Mrs. Jayroe's husband, Stanley, is also a student here. The two Jayroes cause almost as much confusion when it comes to attendance as the Taube twins create.  
(Continued in Column 2.)

## SOPHOMORE II

Politics of the month...Bob Huntington, class president, extending welcome to new members of the class...Resignation of Mrs. Schulman as class treasurer and subsequent election of Otis Payne to that capacity...Paul T. Cosgrove announcing that the payment of class dues is now in order...

Bandages and Linament to...Bob Huntington, Lou Baker, Bill Barger, Howie Henderson, Bill Duke, Miltie Cohen, Bill Buchanan all members of our varsity basketball squad...A harness and a whip to Jacques Weiss, coach of this stellar team...

Nomination for martyr of the month...Irv. Golden, who gave his right leg for C.C.O.

Laugh of the month...goes to a certain group of Soph II's, led by a certain editor, at a certain rehearsal for translating the classic Joe and Paul into Spanish...what a scream!

Question of the month. Who is the "Bull" of the campus?????????

Actors of the month: Chuck Drucker, and Artie Percy.

Time Marches On . . .

### FRESHMAN I (Continued from Col.1)

Musings, or I wonder if....Larry Tachna has a Toni wave; Rosa Wieshuber couldn't type, what would happen; The Launderette wasn't available so Seymour Garner could wash his unmentionables.

Do you need a pair of shoes? Ask Joe Pichierre, Bob Sunshine, or Harold Rose about it. They have taken up the noble art of fitting women's tootsies with the latest styles of shoes, boots, etc., at a loop bootery.

Marli Rozner

## JUNIOR II

The texans did a great amount of buying during the break between semesters. Beckman is sporting a new Oldsmobile ala "Hydramatic" and still has the old Chev, (1947). J. Morgan believes in Studebaker and likes the handle of it. Lastly, brother Grimes splurged too; he gets around in the latest 1949 Father and Son model. Been listening to the radio, Grimes old boy?

Messrs. Gould and Bye went by by for the ten days to Bemidji, Minn. The boys tell us they had a grand time eating, drinking water, fishing and just plain vacationing. They caught no fish but admitted seeing a mermaid after drinking that Bemidji water.

Old faithful, Brer Shepard just stayed around to see that the clinic patients were well orthopticed (Dr. Tobolski won't like you Cliff! Ed. note) and comforted until the docs came back.

S. Ekins thought it would be a good idea to check on his parents. Folks down there tell him that his home town Provo, Utah, expects great things from our boy Ek.

R. Rose told his family, mother and father, etc., all about the clinic and to have all his future patients ready for him next year. R R's home is in Vincennes, Ind. and October 31st was the date when the whole town welcomed Roscoe for the first time in his life. Many happy returns of the day, Ros!

Who was the fellow who said "I'll see you in neural anatomy lab?"

Have Dr. Tennant tell you the story about helping thy neighbors. It has an excellent moral.

C. V. Dulian



# Sports

by Charles Drucker

## BASKETBALL SEASON AROUND THE CORNER

Chicago College of Optometry officially and proudly announced the formation of a varsity basketball squad.

Some thirty hopeful candidates have been trying for berths, and after the first cut, Coach Jacques Weiss announced that the present eighteen man unit would be trimmed further to approximately a fifteen man squad. He also mentioned that these men, who have been practising diligently for the past two months will be in tip-top shape for the forthcoming inter-collegiate program. Needless to say, it will be the duty of each student to give the team moral support. Let us all turn out to attend the games with great gusto and spirit! Let the team know that they are playing for a school worthy of the time and energy which they have invested and which they will continue to invest.



### THE BASKETBALL STAFF

Front - Jacques L. Weiss, Coach  
Standing left to right - Mel Furman, Manager; Dr. E. C. Tobiasz, Athletic Director  
(EYES RIGHT PHOTO BY MURCZYK)

However, at present, the schedule of games cannot be said to be complete. Other schools have been contacted and negotiations are in progress to secure playing dates with a few other teams.

(Continued on Page 8, Col. 3)

# FRAT NEWS

BY ROSCOE ROSE

## Phi Theta Upsilon

A new administration has moved into the "White House" of the Phi Theta Upsilon Fraternity, with the eminent chief executive "Captain" C. B. Dulian as Chancellor and "Major" J. C. Antonik as Vice Chancellor. According to the new Chancellor, many new and exciting events are in the process of being developed in the very near future.

Under the new leaders, the emphasis, as it always has been; will be placed on events and activities which will further the cause of Professional Optometry and aid the members and students in every possible way in their preparation to become affiliated with this profession. Lectures are being planned which will show the Frat the advantages of using sound professional ethics.

The first of these events took place in form of an "Open House" meeting to which every student of CCO and of course all members of the fraternity were invited to attend. The main event of the evening was a speech given by Dr. Harry S. Pine. Dr. Pine was an interesting speaker and many remembered him from the Illinois Optometric Convention where he was warmly received by those present at the time. Phi Theta Upsilon was pleased to have been able to secure him for this occasion, to deliver a lecture that benefited all future members of the Optometric Profession. Among the distinguished guests present was Mr. Oscar Topaz who is one of the editors of the "Professional Press" and the "Optometric Weekly". Refreshments were served following the meeting.

(Continued on Page 8, Col. 3)

## Phi Delta Lambda

On November 3, 1948, Phi Delta Lambda is going to do it again. The Second Annual Stag Party is scheduled for that date. Every student in C.C.O. is invited to attend. (They're sorry, but no women students are invited; you know how it is, girls).

Many will recall the excellent and entertaining "Stag" which the fraternity sponsored last year and which was a tremendous success. This year preparations are being made for an evening of fun that will even excel that of last year. Phi Delta Lambda, in order to acquaint the students with their fraternity and with a desire to add a little more social life to the school, invites everyone to attend. There is no admission charge and everything will be free.

The effort put forth by the fraternity the past two years to become affiliated with an International Optometric Fraternity is soon to pay off. It now appears certain that within the next few months Phi Delta Lambda will become the ninth chapter of Omega Epsilon Phi, one of the larger International Fraternities; and a very prominent one in the Optometric Field. The final action on this affiliation was held up until the school received its recognition by the American Optometric Association. Chicago College was discussed at great length at the last convention of Omega Epsilon Phi and final plans are now being made for the Expansion Committee to come to Chicago and initiate our fraternity. This is extremely good news to the members of Phi Delta Lambda and of course to CCO.

The following schedule has been announced

NAME OF SCHOOL	Date	Time	
Wright Junior College	Friday, November 12	3:00 PM	away
Wright Junior College	Tuesday, November 16	8:00 PM	home
Northern Illinois College of Optometry	Friday, November 19	8:00 PM	home
Joliet Township Junior College	Tuesday, November 23	*	away
Wheaton College	Wednesday, December 8	*	away
Joliet Township Junior College	Tuesday, January 18	8:00 PM	home
George Williams College	Friday, January 21	8:00 PM	home
Northern Illinois College of Optometry	Friday, January 28	8:00 PM	away
Wheaton College	Saturday, January 29	8:00 PM	home
George Williams College	Tuesday, March 4	*	away

\* Time to be announced later



New Grade System In Effect  
(Continued from Page 1, Col. 3)

he will have a reserve of 11 points. The minimum requirement would be 30 (15 X 2.0), and the difference between the points he earned and the minimum requirement is 11.

SEQUENCE OF COURSES:

Normally the work of any one semester is the prerequisite for entrance into work of the next semester. Students who have advance credits and who are taking an irregular program, must consult the Dean's Office prior to registration for determination of the proper sequence in which they should schedule their courses.

Students attending school under the G.I. Bill are required to carry twelve credit hours.

Students will be required to complete satisfactorily each course in its proper sequence. All deficiencies must be cleared up immediately. Students will be held responsible for making up all failures and deficiencies.

A student who fails to remove his probationary status at the end of one semester will not be permitted to take advanced work.

POEM XIV

by Nathan Friedman

The hedge, the flowers and the oak,  
The pine in snowy foil,  
Together stretch their tendrils  
For nurture in the soil.

The gentle thought, the cruel,  
The kindly and the tart,  
All find their nourishment alike  
In life-loam in the heart.

(Continued in Col. 3)

EYES RIGHT

Official Undergraduate  
Publication of the  
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Rosa Wieshuber

FIRST BASKETBALL

GAME

NOVEMBER 12

-8-

Sports

(Continued from Page 7, Col. 1)

The Student Council living up to its magnanimous reputation has authorized a flashy outfit of uniforms for what all C. C. O. rooters hope will be quite a flashy outfit on the floor. Under discussion at this time, is a plan whereby students will have chartered buses available at a nominal fee to provide transportation to all out of town games. Team spirit is running high, for the men have great confidence in their coach, they feel confident in themselves and they feel confident that the student body will support them without restraint. Coach Weiss has expressed hope for a successful season for he feels that his present squad will be able to meet adequately all the competition that will be offered.

Phi Theta Upsilon

(Continued from Page 7, Col. 2)

On October 31, 1948 the fraternity, in the way of social affairs, sponsored a Gala Halloween Party and dance which was held at the Lincoln Park Boat Club. A grand evening of fun was had by all.

At one of the recent regular meetings of Phi Theta Upsilon, thirty-three members were presented their charters of the fraternity.

(Continued from Col. 1)

The weeds left growing in a field  
Will sap the soil dry  
To batten dull and ugly shoots  
While sweetening flowers die.

Then pluck up from the heart  
Its weeds of hate and dread  
So stalks of kindness drying there  
Might blossom in their stead.

Chicago, 14, Illinois  
1849 Larrabee Street

CHICAGO COLLEGE OF OPTOMETRY

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Rec. and Mrs. G. Friedman  
210 So. 3rd Ave  
Mt. Vernon, N.Y.



# FIRST CLASS GRADUATES FIFTY

## RESEARCH PROJECT ON STRABISMUS

### NEW GRADS TO WORK UNDER DR. MURROUGHS

Under the auspices of the Society for Strabismus Research and the Graduate Division of the Chicago College of Optometry, Dr. Thaddeus R. Murroughs, nationally known optometrist, author and lecturer, is initiating a research project on strabismus.

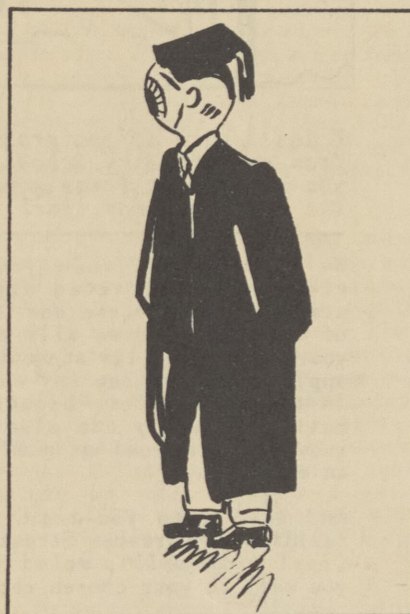


DR. T. R. MURROUGHS

The project will occupy the entire top floor of the new clinic building. It will be completely equipped for all aspects of research in the field of strabismus.

In order to assist Dr. Murroughs in carrying on the work, and to afford qualified graduates an opportunity to participate, several graduates have been appointed to work on the project and receive credit towards their graduate degree. Selected to spend the first year with Dr. Murroughs are the following: Drs. Joseph Shepherd, Joseph Orent, Ted R. Schwartz, John Christakos, Wilbur Purcell, Brandon Leetz of Chicago College of Optometry, and Dr. William G. Bickers of Northern Illinois College of Optometry.

(Continued Page 4)



"JOE EYE, O.D.-FAREWELL"

#### Members of the graduating class are

Amato, Victor Philip  
Ball, John Everett  
Barchfeld, Justin Paul  
Beckman, Fred Lemoine  
Beckman, Robert W.  
Berman, Charles R.  
Bye, Donald J.  
Cheskes, Erwin E.  
Christakos, John  
Dorf, William  
Drucker, Leonard  
Dulian, Clifford V.  
Ekins, Shirley Leo  
Force, Everett Gornito  
Friedman, Nathan  
Fugate, William Ray  
Gould, Curtis W.  
Grimes, Wallace Aubrey  
Gumbel, Elton Jacob  
Harris, James M.  
Henry, Cecil Walter  
Jacobs, Martin  
Jeffries, Jesse Arthur  
Kersting, Kenneth Edward  
Lachman, Malcolm  
Leetz, Brandon Daniel  
Levine, Harry A.  
Markow, Jack  
McConnie, Ralph O'Carroll  
Meyer, John, Jr.

#### DR. KOCH, COMMENCEMENT SPEAKER

Fifty members of the Class of September 1949, the first graduating class in the history of the Chicago College of Optometry, will receive their diplomas as Doctors of Optometry, at the commencement exercises to be held February 20, at the People's Church.

Twenty-four percent of all the graduates are honor students, an unusually large percentage for any professional school. Joseph S. Shepherd, who will make the valedictory address is one of the six graduates accepted by Dr. T.R. Murroughs for his strabismus project.

The commencement address will be delivered by Dr. Carel C. Koch, well known editor of the American Journal of Optometry and Archives of American Academy of Optometry. (Dr. Koch's message to the graduating class will be found elsewhere in this issue).

Other addresses will be made by Dr. Morton L. Abram, Vice-President of the college and by Dr. Eugene Freeman, Dean.

Members of the graduating class come from almost all the States of the Union, Hawaii, Puerto Rico and Canada. Many of them have college degrees and most of them have had some college training prior to their entry into Chicago College of Optometry.

Morgan, Jack S.  
Orent, Joseph  
Perlmutter, Abe  
Pruden, Leslie Fleetwood  
Purcell, Wilbur Ray  
Rainville, Joseph Dominique  
Rose, Roscoe E.  
Rubin, Arthur Joseph  
Schwartz, Ted R.  
Seroka, Andrew G.  
Shepherd, Joseph Sutton  
Simon, Arthur Murray  
Stevens, Oliver Louis, Jr.  
Tague, Joseph Lawrence  
Thompson, Charles Barr  
Thompson, Veerland F., II  
Toney, William Robert  
Vlies, Milton Glen  
Von Bargaen, James Earl  
Wyckoff, Forrest Clinton

(Continued Page 4)



# EYES RIGHT



Official Undergraduate Publication  
of the  
CHICAGO COLLEGE OF OPTOMETRY

Member

Associated Collegiate Press

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## THE EDITOR SPEAKS.....

### Farewell

Nostalgia should not be a word in a newspaperman's dictionary. We are supposed to be too sophisticated and too thickskinned to be moved by events. It is our job to record these events and to evaluate them.

Up to now we believe, we have done our job without any great emotional upsets. We can't help it though if a bit of nostalgia creeps into our typewriter keys as we say "farewell" to our graduating seniors.

Only a few months apart in the acquisition of optometric knowledge we were weaned on the same textbooks and we were indoctrinated on the same phoropters; we made the same mistakes - although you had warned us to profit by yours, we attended the same functions, lunched in the same Grill, stood on the same line to receive our V.A. checks and complained about the same instructors, we later learned to appreciate.

You, the members of our first graduating class, were as much our teachers as any member of the faculty. You helped us in clinic when we became flustered and didn't know where to record the P.D., you sat down with us and allowed us to share your knowledge to make things easier for us. You gently shook your heads and called our attention to the fact that we took a patient's habitual phoria without his glasses on - and we didn't even say "thank you".



*I don't care if you graduated  
from an Optometry School ---  
you're back in Texas now ---  
the cows are over there!*

We'll be there when you will receive that coveted diploma, stating that you are now Doctors of Optometry and we will applaud you. We your fellow students will applaud louder than any one else in the auditorium, because we, better than any one else, will know that the road up hasn't been an easy one.

And then when you turn to the building on Larrabee Street for a final "farewell", we will wish you well in your chosen careers.

We know that you will do well and that we the undergraduates will be proud of our association with you. We are going to miss you, but the profession needs men like you. There is a tremendous uphill job to be done. There is the job of the uprooting of prejudices, the job of the changing of public opinion, the job of advancing the profession and the job of your duty to your patients. We know that you will absolve yourselves with distinction and with honor. Farewell!

## EVERY STUDENT SHOULD GET PATIENTS

As members of larger classes become examiners in the out-patient clinic, the problem of patient supply may become acute, according to Dr. E. S. Takahashi, Clinic Director.

To insure that every student receives more than the required number of patients, it is up to every one to spread the word of the new CCO eye clinic among friends, neighbors, and relatives. To facilitate matters, every student will receive, cards bearing the name, address and telephone number of the clinic upon which he may print or write his own name and give to prospective patients as a reminder.

## GREETINGS FROM

Dr. John B. O'Shea  
President, A.O.A.

It gives me pleasure to offer my congratulations to this notable group, the first graduating class of the Chicago College of Optometry. Your four years of intensive study and work have now culminated in a fine triumph, and it must be a matter of great pride to each one of you to have reached this goal.

Practicing in the honorable profession of optometry each one of you will be engaged in a great humanitarian work. For yours will be the privilege of serving your fellow man unselfishly; no other primary incentive than service to the public entitles one to be considered a professional person.

Your own shining example of consistent endeavor in behalf of the public will be of great solace to the many who consult you for expert visual care. You will be called upon to help make life better and easier for them, to advise and encourage them. Your own success and well-being will be commensurate with your ability to assist others.

As President, I invite you to join the American Optometric Association through your affiliated state association and thereby help to advance and protect the interests of the public and of the profession. I wish each of you a long and illustrious professional career.

Every student will be given credit for each patient turning his card in to the clinic office, but at the same time he will not lose his position in the regular out patient rotation system.

In other words, if a student should have an out-patient, whom he recommended at one o'clock and his regular turn should come at 3, that patient will also be assigned to him.

The advantages of such a system are manifold. By inducing patients to visit the clinic, a student builds up confidence in securing patients for the not so distant future when he will establish his own practice. Also, the value of the additional experience in refracting as many patients as possible can not be stressed too much.

In the final analysis, and not to be overlooked, the student will certainly do his acquaintances a favor by having them come to the CCO clinic, because of the time that can be devoted to each patient and the instruments available for analysis, diagnosis and visual training, normally not present in the office of the average practitioner.

Every student should make it his duty to secure at least two patients during the semester.



# The Human Side Of It

by Norbert Kastner

**STRICTLY PERSONAL:** Class mate Joe Meier, who likes to have his fingers inmost any discussion almost had his "tactile tension" limbs chopped off when your reporter inadvertently slammed a car door on them. Forgive us, won't you?

**SPEED:** With all the new events in and around the school taking shape with such speed, a reporter's dream has come true. You no longer have to worry about where to get a front page story, but what to use for one.

**WEDDING BELLS:** So many of CCO's finest have taken the step during the semester and so many more will bring back the little woman with them for the fall semester that the only conversation one hears these days between the undergraduates and the Senior IIs is: 'Gonna leave your apartment soon, bud'?

**QUESTION:** Why is the roof of the dormitory on the new campus bad for observation? **ANSWER:** There is nothing wrong with it, if the cops don't catch you! Besides there must be nicer architectural structures than the Belden-Stratford. Oh, you weren't looking at the architecture.....!

**FAME:** We expect big things from our boys joining the Murroughs crew. There is nothing like raising celebrities yourself. Can't you just see it when five years hence you walk into an AOA convention and suddenly there falls a hush over the audience. You can't see very well what goes on on the stage because you still haven't been able to obtain a proper Rx.

"What goes on," you ask in an unsteady voice (after all it's a convention). "It's Shepherd, the grand old man of optometry", somebody whispers reverently. "Shep, huh!, he used to drink more beer than I did at the OEPhi stags". The dirty looks you get are enough to keep you quiet ..... You can never tell!

**RESIDENCE:** It was nothing like this when we lived at the "Y". What with Drs. Schoen, Frank and Kalk residing there, you don't even need any text books anymore. All you do (so our spies tell us), is to slip a note with a question under one of the gentlemen's door and then go to a show. When you get back your problem is all worked out in your mailbox. That is when the television programs aren't on.

**EMPLOYMENT:** Boss of the grill tells us that if Art Simondoesn't make out in Florida he can always work for her during lunch hour. Knowing Art, he'll probably say, "It's the best offer I had today". In rhymes, too!

## Comments on the Advantages of Professional Practice

by

Dr. Carel C. Koch, Editor  
American Journal of Optometry  
and  
Archives of American Academy of Optometry

This is a momentous occasion to you, the members of the first graduating class of the Chicago College of Optometry. This is also true for the faculty of the College, and it certainly is a significant occasion for optometry. A milestone has been reached in the lives of the graduates and the immediate future will have a lasting bearing on both the college and upon the profession you have chosen to enter.

As graduates with your undergraduate training behind you you now face an important decision which will not only seriously affect the standing of your alma mater and that of your chosen profession. What are you men now to do who are entering optometric practice? It is hoped that you will follow the true professional role. If you do, you will take pride in your work and your examinations and refractions will not be made hurriedly or in a careless fashion.

By practicing professionally you will rapidly attain the type of public confidence which only accompanies professional practice.

You will win the individual professional recognition which can only come from your colleagues and members of other professions which you practice professionally.

Your refractive skill will grow as you grow in professional stature.

Your family and immediate friends will take pride in your work and will feel encouraged to recommend you whenever the occasion arises.

For you, the optometrist in practice, work in professional surroundings will be a source of satisfaction and happiness, and after several years, you will be in a better financial position because of your professional outlook and practice.

Whatever the future holds for optometry in the way of finer things can only come to us as a professional group if we live up to the ideals of proper practice procedures. As a health specialty we are governed by the basic laws of ethics to which all professions subscribe.

I, therefore, feel free to call upon you graduates to build

## YOUR ANSWER PLEASE

By Milt Rosenzweig

The Question:

What incident, which you experienced while attending C.C.O. do you feel has made a lasting impression on you. (Asked of graduating class.)

Answers:

Malcolm Lachman The incident  
Honolulu, Hawaii which made the  
most lasting  
impression upon me took place when  
I was a Sophomore II. I walked in-  
to a booth and someone said, "This  
is a phoropter, this is an out-  
patient; - Refract."

Jack Morgan When it dawned  
Annona, Texas upon me that a  
group of stu-  
dents of totally different reli-  
gions, races and creeds could  
cooperate with each other and  
get along as well as they have.

V. F. Thompson I'll never for-  
Newport News, Va. get my first talk  
with Dr. Takah-  
ashi, who was then Dean, and his  
expression of liberal views and  
ideas.

Martin Jacobs The most last-  
High Springs, Fla. ing impres-  
sion?  
Well, it happened during a class  
on a day that would have been  
routine except for an inspir-  
ing bulletin issued by the office.  
The bulletin read in effect,  
"C.C.O. has been provisionally  
recognized by the A.O.A."

Arthur Rubin The closeness and  
Chicago, Ill. cooperation among  
the seniors, and  
the utilization of their power in  
the student council, to get  
things done.

Irwin E. Cheskes I will never  
New York, N.Y. forget the  
hot summer  
days in the "sweat-boxes" called  
"clinic booths".

Ted Schwartz The drastic change  
Chicago, Ill. in curriculum in  
going from the  
Sophomore to the Junior year, or  
"going from high school to col-  
lege."

Abe Perlmutter I will always  
Los Angeles, Cal. remember the  
spirit of in-  
formality between the students  
and instructors.

C. V. Dulian To see the  
Detroit, Michigan old school  
organized  
into a new one and to watch the  
growing school spirit which  
followed that change.

your practices in conformity with  
these basic rules of ethics, and  
in so doing, securely build your  
professional futures into a life-  
time of useful service to the  
American people.



# Society To Hold Conference

The National Society for the Prevention of Blindness will hold a FIVE-DAY CONFERENCE in conjunction with the Interim Session of the Pan-American Association of Ophthalmology, MARCH 26-30, 1950, at the Floridian Hotel, Miami Beach, Florida. The theme of the meeting will be THE AMERICAS UNITE TO SAVE SIGHT, and among the subjects to be discussed are: Current blindness prevention programs in countries of the Western Hemisphere; Trachoma; Industrial ophthalmology; Eye problems of school children; Medical and social management of the glaucomas.

Persons directly or indirectly concerned with eye health and safety will find this conference of interest. Details concerning the program may be obtained by writing directly to the National Society for the Prevention of Blindness, 1790 Broadway, New York 19, N.Y.

Reservations should be made in the near future with the Floridian Hotel, 540 West Avenue, Miami Beach, Florida.

## GRADUATION

(Concluded from Page 1)

Dr. Henry J. Frank, will be awarded the degree of Doctor of Ocular Science during the commencement exercises. Dr. Frank has completed and published his research project on a "Comparison of Good and Poor Readers". He is now assigned to the clinic as a staff doctor and as an instructor in instrumentation lab.



The members of the graduating class in a farewell gesture, have presented the new clinic with a bronze plaque which will be mounted on the outside of the building and which bears the legend: CHICAGO COLLEGE OF OPTOMETRY, EYE CLINICS presented by the first graduating Class, September 1949 -

To the first graduating class of Chicago College of Optometry:

by Dr. J. Otis White  
1st Vice-President, A.O.A.

"May you be no man's enemy, and may you be the friend of that which is eternal and abides. May you never quarrel with those near you; and if you did, may you be reconciled quickly. May you never devise evil against any man; if any devise evil against you, may you escape uninjured and without the need of hurting him. May you love seek and attain only that which is good. May you wish for all men's happiness and envy none. May you never rejoice in the ill fortune of one who has wronged you. When you have done or said that which is wrong may you never wait for the rebuke before making amends. May you respect yourselves. May you always keep tame that which rages within you. May you accustom yourselves to be gentle and never be angry because of circumstances."

This benediction was adapted from an early Greek prayer, which was written 2000 years ago. Its richness has increased with the years, and it is today as modern as your morning paper. To these blessings may I add my congratulations, and sincere wishes for a successful career in the profession of Optometry.

## GREETINGS FROM

Dr. E. B. Alexander,  
National Director

Optometric Extension Program

Congratulations to the Chicago College of Optometry on the occasion of its graduating its first class of optometrists. The Optometric Extension Program welcomes your graduates to its Study Groups as soon as they obtain their state licenses, as we are always glad to see good men enter the field of optometric service and we want to do our share in helping them to succeed, by continuing in postgraduate form their undergraduate education.

## BETA SIGMA KAPPA APPROVES CHAPTER AT CCO

Beta Sigma Kappa, international optometric honor fraternity, has opened its doors to honor graduates of the Chicago College of Optometry. Through the efforts of Dr. Eugene Freeman, dean of the school, certificates of eligibility will be issued to all the members of the graduating class with a 3.3 average or better.

The objects of this famous honor fraternity are "to stimulate scientific mental attainment and profound ethical practice by holding forth the prize of membership in this fraternity" and to "provide scholarships for deserving candidates".

Dr. Harry E. Pine, former president of the American Optometric Association, is president of Beta Sigma Kappa.

# ALOHA NUI KAKO

The latest addition to the organized extra curricular activities at the Chicago College of Optometry is the Hawaiian Club. The purpose of the club is to orient incoming students from Hawaii and to give them pertinent information regarding practice in the islands. Malcolm Lachman was elected president, Toshimi Ogawa, Secretary and Masao Nakao Treasurer of the group. Other members are Daniel Fujisaki, Hiroshi Shimamoto, Seichi Soo, Norman Yonenaga and Richard Choy. The Hawaiian Club meets the first Friday of every month.

## DR. MURROUGHS

(Concluded from Page 1)

Prior to interesting himself in Optometry, Dr. Murroughs spent six years in the University of Chicago, majoring in Biological Sciences, the last two of which were spent in graduate work under a research scholarship. In this work Dr. Murroughs earned his M.S. degree in Zoology.

Upon accepting a teaching position at NICO, Dr. Murroughs became interested in Optometry, particularly in visual problems which had not been yet solved. Because of a scientific interest in optometry, Dr. Murroughs began studying and in 1944 received his Doctor of Optometry degree. For several years, Dr. Murroughs has been practicing privately in Lincoln, Indiana. During his years of practice, his interest in strabismus cases have intensified. However, he has realized, that a private practice of necessity, could not provide sufficient material to develop a research program.

Dr. Murroughs has worked with many famous men in optometry, including Drs. Fred Brock of New York, and Carl Lange, St. Louis, Mo. While Dr. Murroughs has been carrying out independent research, seventy optometrists have been engaged in similar work. To coordinate their findings, the Society for Strabismus Research was founded in December, 1948.

Chicago College of Optometry, in manifesting its desires to aid and assist in optometric research, has made all its facilities available to Dr. Murroughs in order to carry out his all important project.

For the last four years Dr. Murroughs has been chairman of the committee on Orthoptics and Research of the American Optometric Association. He is a member of Omega Epsilon Phi, Tomb and Key, The American Association for the Advancement of Science as well as various state and national optometric organizations. Dr. Murroughs has lectured at many Optometric Congresses and meetings and has authored numerous articles for the various provincial publications.

A meeting of the Society for Strabismus Research is scheduled to be held in November at CCO and will be attended by leading scientists in the field.



## SMALL TURNOUT FOR BOATRIDE - BUT FUN IS GREAT

School spirit in the much heralded boat ride and picnic was not in evidence when less than 200 students and their dependents boarded the S.S. City of Grand Rapids for a day's outing to Benton Harbor, Mich. At least 300 students had signified their willingness to attend when the project was first brought before the student council, but apparently changed their minds when the "day off" had become a fait accompli.

We are sincere when we report that students who didn't attend, whatever their reason, missed a lot. From the time the ship raised her anchor to the time she returned to her dock, everyone aboard had a rollicking time.

There was good-natured ribbing, community singing, card-playing, dancing to organ music below deck, picnicing and fraternizing and many people who had never met formally on the campus became fast friends.

The members of the faculty and administration who came were amply rewarded by further cementing the already good relationship between students and teachers at the college.

Dr. Eugene Freeman who came prepared to outline a voluminous philosophy book on the Lido deck, soon gave up to indulge in a spirited description of his home to which, when completed he intends to invite student groups.

Arthur Simon was present with his usual antics, two girl friends and a key to Stateroom B which soon became headquarters.

Dr. Mort Abram, the school's jovial V.P. watched over the activities like a mother-hen and insisted that everyone have a good time - a thing that wasn't difficult to achieve.

He was even willing to lower several of the fraternities' pledges overboard - anything for good clean fun.

Coach Stockdale, complete with baseball cap contributed to the fun and was in evidence wherever the laughter was the loudest.

There were many of the married couples present. Just to mention a few, the Lachmans, the Jayroes, the Wilsons, the Kastners, the Craveys, the Gates' complete with cute offspring Marshall Lee, from the student body, and the Gertz's Moores and Hoss' from the faculty.

Dr. Michaels turned out to have a pleasing voice - another one of his many accomplishments.



Before going on that vacation trip be sure to purchase CCO Seals and Stickers for your car and baggage ---

Available at front office

The stops were shared between Silver Beach and Benton Harbor. The latter stop gave the boat-riders the opportunity to visit the famous House of David and witness a free vaudeville show.

Dr. Wodis, the Associate Dean, doubled as Eyes Right photographer, the regular man having been unavoidably delayed. Mr. Thuermer didn't even mention one formula and was glad to get away one day from his tormentors.

The return trip divided the men from the boys when the weather got a little rough, but it only seemed to cheer up Dr. Hoss who loves salami while others are hanging over the rail.

Most lovey-dovey couple were the Rainvilles.... And so, as the sun went down behind the Wrigley Building, the boatripe ended. Don't you wish you had been there.

## FOUNDATION ANNOUNCES FELLOWSHIPS

The Directors of the American Optometric Foundation announced the offer of three \$1500 fellowships for the academic year 1949-50. The decision was reached to offer these fellowships after consultation with the members of the Advisory Research Council of the American Optometric Foundation while in attendance at the recent American Optometric Association meeting in Boston.

This is the first move of the Foundation in support of education and research in optometry. These fellowships are offered primarily to encourage prospective teachers in schools and colleges of optometry to continue with programs of graduate education leading to the Ph.D. degree, or to aid graduates from schools and colleges of optometry to prepare themselves for teaching and research positions in optometry by pursuing a graduate program leading to the Ph.D. degree.

The fellowships are open to any graduate optometrist. A candidate, if selected for a fellowship, may pursue his graduate program at any institution granting the Ph.D. degree. The fellowship is for a period of nine months. During these nine months he must be enrolled as a resident in a Graduate School. He will be expected to spend not less than two-thirds of his time in the pursuit of his graduate program, and at least one-third of the total time must be devoted to research on the subject proposed as a basis for securing the fellowship. The problem selected for investigation may be changed at any time if it meets with the consent of the Foundation. During the time of the enrollment in a Graduate School under the fellowship, the fellow may engage in a part-time teaching position or graduate assistantship to the extent of one-third of his time.

Any publications arising out of the work sponsored by the Foundation must give due credit to the Foundation, unless the Foundation elects to have mention of its sponsorship omitted. Consequently, all publications must be submitted to the Foundation for approval of the mention of sponsorship.

Fellowships may be renewed once each year if funds are available and if satisfactory progress is shown. The renewal of a fellowship for a second year does not presuppose the continuation of work on the same problem.

A report of progress will be required at the end of each year, and, in case the fellowship is not renewed for a subsequent year, the report at the end of the year can be considered to be a final report.

(Continued on Page 6)



# Last Will and Testament

OF THE 1949 GRADUATING  
CLASS OF CHICAGO COL-  
LEGE OF OPTOMETRY

We, the graduating class of 1949 of Chicago College of Optometry in the county of Cook and the State of Illinois being of sound minds and memories, and considering the uncertainty of this frail and transitory life, do therefore, make, ordain, publish and declare, this to be our last WILL and TESTAMENT.

FIRST - We give, devise and bequeath to the following personages associated with the faculty and administration of Chicago College of Optometry:

- To Dr. Seid-Bigger and better buildings.
- To Dr. Katz-A period of watchful "waiting".
- To Dr. Hoss-Two basic types of Bifocals.
- To Dr. Wodis-Volume II of Ocular Anatomy notes.
- To Dr. Tobiasz-A set of new questions.
- To Dr. Takahashi-Form #14-P for the clinic.
- To Dr. Manas-A broken Ophthalmometer.
- To Dr. Miller-A moldy contact lens.
- To Dr. Brent-A set of broken Wagnerian recordings.
- To Dr. Thurmer-'Homologue 99'.
- To Dr. Michaels-A set of ROYGBIV Chalk.
- To Dr. Kurtz-A plastic beaker.
- To Dr. Beiman-A pair of spectacles.
- To Dr. Brodnax-The new invention, 'Fountain Retinoscope Pen'.
- To Dr. Kalk-A new 21 step technique in doing a #7.
- To Dr. Stephens-The class of 1953.
- To Dr. Schoen-Fugate's Analysis.
- To Dr. Tennant-Students who 'now' it all.
- To Dr. Ziman-2,000,000,000 units of penicilin.
- To Dr. Greengard-A season pass to the local country club.
- To Dr. Tobolski-A set of used English Paper, 'Exercise 4'.
- To Dr. Frank-One slightly used Debator's Manual.
- To Dr. Held-Another date with C. V. Dulan.
- To Dr. Abram-Two unused tickets for the next boatride.
- To Mr. Stein-The lineless balance sheet.
- To Dr. Freeman-A set of Feinbloom contact lenses.
- To Dr. Masuoka-A pair of elevator shoes.

Lastly, we make, constitute and appoint Dr. Reuben Seid to be Executor of this our last Will and Testament.

REMEMBER TO  
ENTER  
HOBBY  
CONTEST

DEADLINE  
NEXT ISSUE OF  
EYES RIGHT  
OCTOBER 6th

All Clubs!-----  
Appoint a reporter  
and submit name to  
EYES RIGHT

## FOUNDATION

Concluded from Page 5

Preference will be given to applicants who show the most promise for a useful career of teaching and research in optometry, but consideration will also be given to the merits of the project on which the candidate proposes to work.

The candidate must begin work on the fellowship not later than October 1, 1950, and must complete the work prior to October 1, 1951.

The deadline for filing applications will be September 1. If fellowships are still available after applications filed by September 1 have been considered, applications filed after that date will be evaluated as soon as possible, and one of the available fellowships will be awarded if the Foundation regards the candidate and his project worthy of support. Funds for fellowships not granted by January 1, 1950 will be reallocated in subsequent years. The Foundation reserves the right to refuse all applications for fellowships, if, in the opinion of the Directors, the requirements are not met.

The awarding of a fellowship is in each case provisional and does not become final until after satisfactory completion of registration in the Graduate School specified in the application or an alternate approved by the Foundation.

All who are interested in receiving one of these fellowships should immediately write for an application blank and further details to the President of the Foundation, William C. Ezell, O.D., 205 Andrews Building, Spartanburg, South Carolina.

## Greetings

by Dr. William Greenspon,  
President  
International Association  
of Boards of Examiners in  
Optometry

May I extend to you gentlemen of the first graduating class of the Chicago College of Optometry greetings from the International Association of Boards of Examiners in Optometry and their best wishes for your ultimate success in the practice of your chosen profession.

Your record of accomplishment before your respective state boards will be watched with the keenest of interest by the administrative staff of your college and the profession at large, especially since you are the vanguard class of your alma mater.

Let me assure you that the examining boards in the states of your choice are sincerely interested in your future, and the completion of your basic professional training should place you in a position to meet the requirements of these state boards. Be assured that the men comprising these boards are anxious to help you over this last hurdle. They want you and need you in their communities but you must bear in mind that it is their legal and moral duty to decide which of you in their honest opinion is prepared by training, personality, and adaptability to meet the specific requirements of their respective localities. You can and must find your niche in the board framework of the profession and be prepared to meet the exacting requirements of true professional men. Then and only then will you grow to your full stature as respected and useful citizens of your communities.

There are no short cuts to successful practice. The world does not owe you a living for having gone through a few years of basic training. You must prove yourself worthy through a sincere desire to help your fellowman with his visual problems. This desire will bring its own reward. Do not be misguided by the glamour of the get-rich commercialist. Take the straight road to ethical practice, and your reward will then be both satisfying and remunerative.

The officers and members of this organization are available at all time to give you assistance and advice whenever called upon.

May I extend my personal greetings and congratulations to each of you upon your graduation.



## ABOUT THE NEW CLINIC....

It was the first day in the new clinic and out-patients were waiting in the wall-papered waiting room while Seniors and Juniors were lugging trial cases and diagnostic equipment from the tin coast to the gold coast. Most of them made it.

Naturally there was a little confusion. "where are the booths", and "where do I hang my clothes" and "where is the front office" and "where do I go when...." and where ad infinitum and ad nauseam ....all these questions and more where answered good naturedly by the clinic's director Dr. Takahashi and soon it was business as usual.

The paint wasn't quite dry yet in places and carpenters were competing with interns who had a little tougher time than usual eliciting responses from bewildered patients - but there was an unmistakable sense of 'it's going to be all right, when it's all finished' about everything.

Dr. Takahashi, in a personally guided tour, explained to the students the details and the workings of the new clinic. He showed the quarters for the new Murroughs project and the V.T. rooms, the remedial reading quarters, pathology section, etc.

This reporter received the impression that the clinic will become a smooth working unit. It also seems that interns will benefit from the added professional atmosphere of the quarters. A lot is up to the students. If they want to be treated as future professionals should be treated, they must act accordingly.

## FOCUS '49 IMPINGES ITSELF ON STUDENT BODY

Focus '49, Chicago College's first yearbook has been distributed and won the approval of students and faculty alike. The four-hundred copies of the first edition found eager hands and the staff of the yearbook is to be commended for their competent and professional handling of all the intricate phases of publishing a volume of this magnitude.

Articles and features as well as pictorial and artistic coverage was handled with a maturity and a "know-how" that came as a surprise to many who had viewed the project with some misgivings. Advertising and sale of the book covered all expenses adequately.

The staff of the yearbook consisted of the following students: Editors: Leonard Drucker, Harry Levine and Veerland F. Thompson, II.  
Business Manager: Arthur M. Simon

## WARNING!!!!!!

### YOU ARE BEING FOLLOWED -

By  
Dr. H. E. Pine, President Beta Sigma Kappa, Past President, A.O.A.

We sometimes forget that we are being followed by all the optometrists to come whose futures will be determined by what we do for (or to) optometry.

It is a sobering thought indeed to realize that our actions, our attitude toward our profession, whether we would have it so or not, will influence all optometrists who follow us.

Just as a small stone thrown into Lake Michigan at Chicago will, in time, produce a ripple on the far shore, so will our smallest action help or hurt all optometrists everywhere for all future time. We who love optometry have a great responsibility to the public in such a way as to earn for it the respect we claim it deserves.

Every one of us should feel it his duty to leave optometry at least a little further advanced, a little more respected, than it was when we started practice. We each can make the going easier for those who follow us by clearing the trail and repairing the bridges as we go along. Every mistake we make, every bad impression we leave will be an obstacle for those who follow us to trip over. It isn't enough that we be good optometrists during office hours; we must be complete persons, good men, good citizens, outside of our offices as well.

It is a serious business being entrusted with the vision of mankind, and if we presume to undertake this important work we should make such a fine job of it as to convince the public that optometry is worthy of its trust and confidence. We cannot reasonably expect the public to respect optometry to a greater extent than do optometrists themselves.

The best way for each of us to "clean up" optometry is for each of us to start with cleaning up his own practice. In the long run it will be what you are that will count with the public.

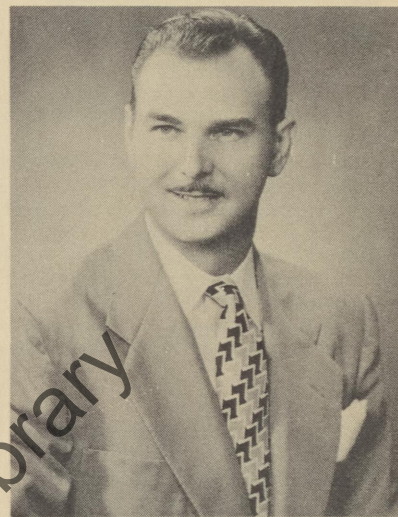
This is "Corn," you say? Possibly it seems that way to you now, but file it away in your memory and don't pass judgment too quickly. You could be wrong you know.

Assistant Business Managers: Robert C. Golden, Jerome Swirson  
Staff Photographer: Erwin E. Cheskes  
Proof Reader: Paul Moss  
Typists: Rosa E. Wieshuber and Ramon R. Salinas

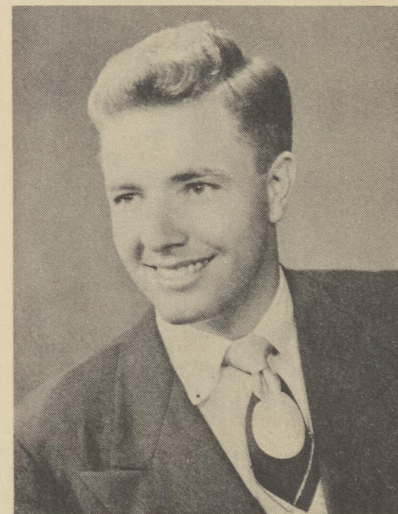
## Fraternity Gives Awards

Zeta Chapter of Phi Theta Upsilon, in keeping with the tradition of the International Council of its fraternity, has instituted a series of awards to be presented to the outstanding members of the graduating class who are members of P.T.U.

In making the announcement, Thomas R. Sekey, fraternity chancellor said. "The primary aim of the fraternity is to mold better men for our profession. This being our motive we are proud to present the following awards to our brothers of the graduating class:"



C. V. Dulian

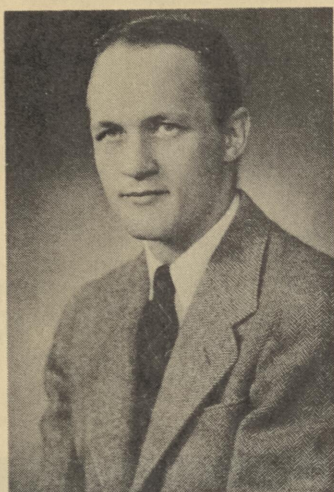


Forrest C. Wyckoff

Scholarship Award: Shirley L. Ekins, Provo, Utah  
Leadership Award: Clifford V. Dulian, Detroit, Mich.  
Athletic Award: Forrest C. Wyckoff, Roscommon, Mich.

Mr. Sekey continued in saying, "We wish to extend congratulations to these men and feel certain that they will make even greater strides in the field of Optometry".

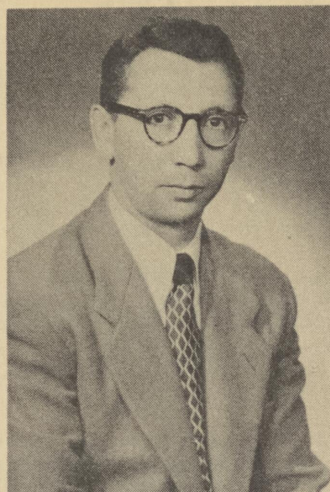




JOSEPH S. SHEPHERD

Award: *aledictory Award & Medal, Summa Cum Laude, Honor Fraternity*

Born in Indiana and lived in Michigan and Kentucky. Served as fire control man on Destroyer Escort in North Atlantic Convoy. Attended Purdue University with B.S. in Chemistry. Member and past treasurer of OEPhi. Selected for Murrroughs project. Will practice in the South. Married. Age: 31.



JOSEPH J. ORENT

Award: *Summa Cum Laude, Award in clinical optometry - Honor Fraternity*

Born in Russia; came to the States at age of 12. Attended CCNY and Cornell. Served three years in the Navy. Worked for Public Health Service. Teaching medical lab techniques while attending CCO at Chicago College of Lab Techniques. Selected for Murrroughs project. Will practice either in Illinois or State of Washington. Age 38, married.



VICTOR P. AMATO

Award: *Magna Cum Laude, Award in Theoretical Optometry, Honor Fraternity*

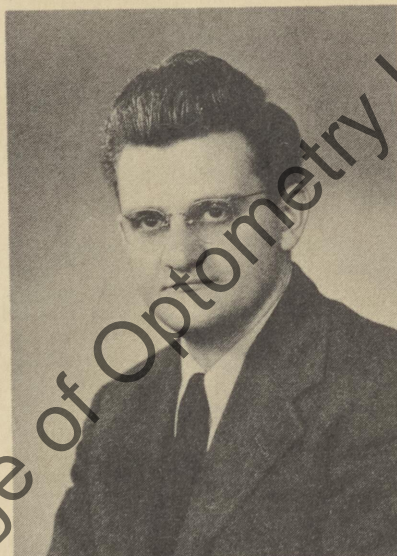
Born in Brooklyn, New York. Graduated from Brooklyn College with B.A. in Biology. Served as Research Engineer in Radio Direction Finding for War Department. Served over three years in army as Interpreter and laboratory technician in CBI, Iran and Italy. Is licensed Ophthalmic Dispenser, State of New York. Member of OEPhi, Science Editor, EyesRight, Contributor to Year Book. Age: 27.



HARRY A. LEVINE

Award: *Cum Laude, Award in Physical Science, Honor Fraternity*

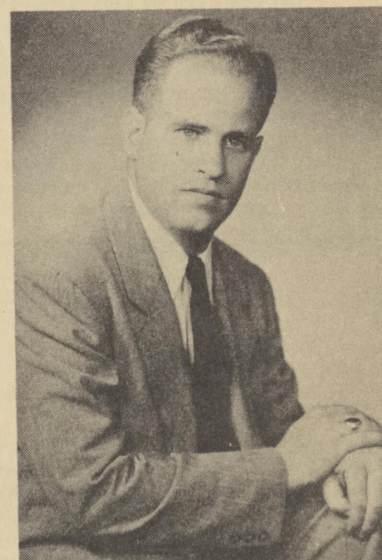
Born in Brooklyn, New York. Attended Brooklyn College and was graduated with B.A. in Physics. Worked in War plant as electrical engineer. Member of OEPhi, year-book staff. Age: 28. Will practice in New York.



JOHN CHRISTAKOS

Award: *Cum Laude, Award in Biological Sciences, Honor Fraternity*

Born and educated in Winnipeg, Canada. Attended Winnipeg School of Art, Daniel McIntyre Collegiate Institute and United College, all Canada. Won Provincial Cadet Boxing finals in Welterweight division. All around athlete. Worked for Canadian Geographical Survey on ore deposits and chemical analysis. Will practice Washington State or Florida. Member of OEPhi, contributor to year book. Age: 24.



RALPH O McCONNIE

Award: *Honor Fraternity*

Born in Puerto Rico. Attended University of Puerto Rico and was graduated with B.S. Joined Army and served in Armored Corps and Panama and Pacific Theater. Was inactivated with rank of Captain Infantry. Was president of Junior class, member of OEPhi and Puerto Rico Club. Will practice in Ponce Puerto Rico. Married. Age: 25.





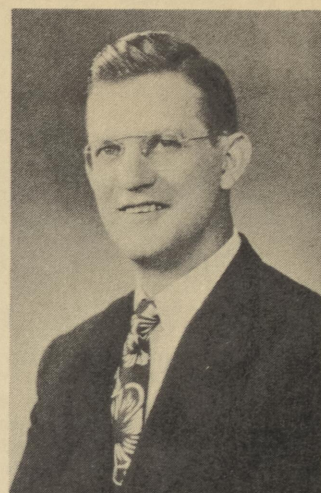
**LEONARD DRUCKER**

*Award: Honor Fraternity*  
Born in New York. Attended Brooklyn College and was graduated with BA degree. Served 3 years in Engineer Corps ETO. Will practice in New York. Member of OEPhi, Research Editor, Eyes Right, former Editor of Eyes Right, year book staff, married. Age: 25.



**SHIRLEY L. EKINS**

*Award: Honor Fraternity*  
Born in Utah. Worked on a ranch. Served in Army Air Force for 3½ years in radio and radar. Attended Brigham Young University for two years. Served on Student Council, member of PTU. Will practice in Utah. Age: 28.



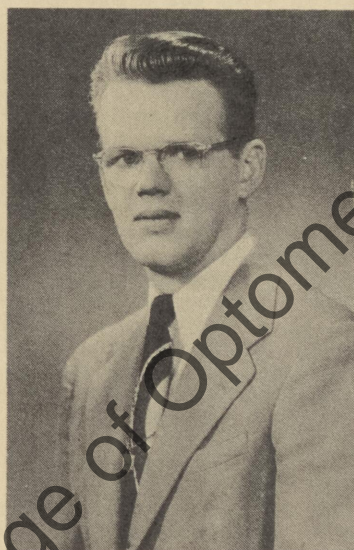
**NATHAN FRIEDMAN**

*Award: Honor Fraternity*  
Born in New York, attended Miami University, Columbia University. Spent five years in the state of Israel, part of that time on communal farm in the Jordan Valley. Taught Hebrew and worked in advertising. Writes poetry. Member OEPhi, will practice in Florida. Married,



**ARTHUR M. SIMON**

*Award: McCafferty Award, Honor Fraternity*  
Born in the Bronx, New York. Attended University of Alabama, Florida Southern College and New York University. Served in the Naval Dental Corps for three years. Will practice in Florida. Business Manager for Year Book, President OEPhi fraternity, Social director for school, member of fencing team, member of graduation ring committee, Council on Professional Ethics, past student council representative. Age: 26.



**JOHN E. BALL, Jr.**

*Award: Honor Fraternity*  
Born in Slater Missouri. Played football, drums in school bands, served in the Navy for 3½ years. Attended Missouri Valley College. Is member of P.T.U. Will practice in Missouri or Arkansas. Age: 25.



**TED R. SCHWARTZ**

*Award: Honor Fraternity*  
Born in Chicago. Attended University of Illinois. Member of PTU will practice in Illinois. Accepted for Murroughs project. Age: 21.



## Profile...

### THIRTY YEARS BEHIND THE GRINDSTONE --- WOULD DO IT ALL OVER AGAIN

by Simon Dallas

Presenting: Laurence J. Carlson:

It was a bleak December day. The year was 1919. World War I was over and the roaring twenties had not as yet begun. Horses and early automobiles still shared the transportation spotlight in Chicago. A seventeen year old lad has gotten tired of working in a war plant and was looking for brighter horizons. Central Optical Company was his new employer and the lad was Laurence J. Carlson, Chief of the Dispensing Department of the college's eye clinic.

This was his introduction to Opticianry - not as an optician to be sure, but close enough, Young Larry started as a pick up and delivery man for optical goods, but you couldn't hold a good man down. Within a short time he had laid out a motor route for pick up and delivery - the first one in Chicago and he came to the attention of his superiors.

When he wasn't busy going to the various optical places, he spent his time in the firm's laboratory. The pieces of glass fashioned into lenses fascinated him. Here was something a fellow could try his skill on. Larry did some tall talking and soon found himself apprenticed to the optical shop.

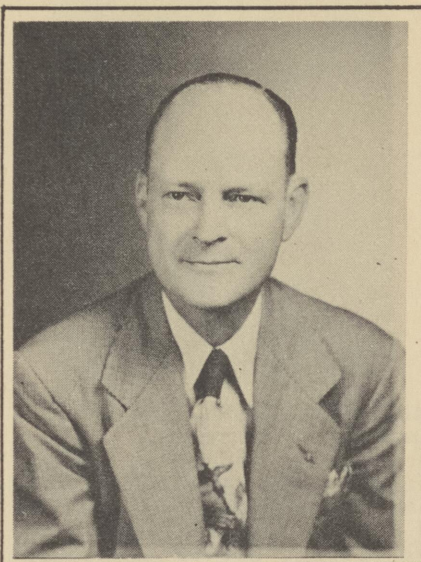
There were no optical schools in those days, nor were the opticians too keen to share their trade secrets with any young boys who were eager to become competitors of theirs. You had to learn by observation by trial and error and by what scant literature there was available on the subject.

Mr. Carlson recalls that cement bifocals were en vogue in those days (and they used to slip off on hot days); all bifocals had to be hand cut by diamonds and celluloid patterns. While other opticians in the shop developed one specialty and did nothing else, young Larry became an all around hand, becoming proficient in all phases of the trade.

Four years later he joined other firms like Burgess Optical, Riggs, Continental and many others. He travelled extensively for some of these companies and got to know the other aspects of opticianry.

Sixteen years later, in 1937, Mr. Carlson joined the staff of the Northern Illinois College of Optometry where he taught Mechanical Optics and took charge of the lab.

In 1946, Mr. Carlson came to our institution and remained as



"Larry" Carlson

Chicago College's head of the dispensing department. Here, every job, large or small goes before his scrutinizing gaze and the optical companies know well that let there be the slightest deviation from the prescription and it will not be accepted.

Mr. Carlson became a little mellow when he recalled the difference between opticianry in the twenties and the profession of today. He still remembers when prescriptions were handed in without stating P.D., nor heights of segs. Often one eye was written in plus cylinder form and the other in minus cylinder form. The "Modern" frame was the Zylo-metal frame with the saddle bridge and the Pinces nez. Toric lenses were just coming into being and the patient didn't expect too much from his specs.

Larry, as he is known to all his many friends from coast to coast, recalls two prescriptions he had to fill in particular. One was the smallest - for a two year old child with a 48 P.D., 32x28 and a 16 D.B.L. and the other with an almost unbelievable 84 P.D., 54x46, a 30 DBL and 7/8 inch temple for a 350 lb. man and a bifocal case at that.

Mr. Carlson, who is a native of La Porte, Indiana and married, said that he would do it all over again if he had the chance. "I've found my work satisfying and sufficiently varied to make it interesting all these 30 years. There is something new happening every day".

"Do you think a plaid frame would match my personality," a female voice piped up from the fitting room. "See, what I mean", said Mr. Carlson. Yeah, we see what you mean, Larry! Never a dull moment.

## FINE GOLD OR DROSS

by Dr. James F. Wahl  
2d Vice President, A.O.A.

Remember the old saying "The proof of the pudding is in the eating"? It could as well be phrased "The measure of the mine is in the assay report of the gold it produces". You, the first graduating class of Chicago College of Optometry, are the first gold taken out of the mine to be placed on the assay table of public opinion and weighed, scrutinized and evaluated.

In the rough ore stage you entered the mill, potential gold in you; there were doubtless some nuggets of pure gold among you at the start, the percentage was probably not too great. The milling process took away some of your number, it is but natural that some fall by the wayside in every trek, some were never gold at the start, others not sufficiently fine to be minted.

Standing at the threshold of the Profession of Optometry you are about to be stamped with the mark of the institution which has produced you. All coins may look alike yet each bears the mark of the mint, the identifying code initial. This is proof to the world that the institution which has produced you feels that you are worthy of bearing it's name and upholding it's standards.

Now, new gold that you are to the Profession of Optometry, go forth into the world with the realization that gold has of itself no value other than the happiness it can produce for mankind. As with the coin, turn your efforts over and over in the interest of your fellow man; keep your face as bright and shiny as a new coin wear like the pure gold which your Alma Mater has branded you to be so that both she and the Profession you now join can be indeed proud the assay test said 'Fine Gold'.

## GRADUATES:

PLEASE KEEP IN TOUCH WITH  
US!

\*\*\*\*\*

Send us your new address  
so that Eyes Right can  
reach you wherever you are.



# GRADUATE DIVISION ESTABLISHED

With the graduation of the first class from the college, a graduate division has been established under the directorship of Dr. Z. John Bruce Schoen, head of the Optometry Department.

According to the director, the division has been established to train qualified graduates in the following designated areas:

1. To train specialists in the newer areas of modern optometry, such as: visual training specialists, strabismus specialists, remedial reading specialists, industrial vision specialists, etc.
2. To train research specialists who will be capable of carrying on significant research work in the field of optometry.
3. To train teachers to become qualified for positions in optometric colleges, clinics and institutions offering related work.

This course will require 32 semester hours of graduate work consisting of one year (two semesters) of residence study at the graduate level in the college.

## I. ADMISSION REQUIREMENTS:

In order to qualify for admission to the course a candidate must fulfill the following requirements:

- a. Be a graduate of a nationally approved school of optometry (four years minimum), or
- b. Have a Bachelors degree in a field related to optometry.
- c. Each candidate must be approved by the Committee on admissions.

## II. Requirements of the Course

Each candidate for a degree Master of Science in Optometry will be required to complete 32 semester hours of graduate work including 8 semester hours of graduate clinical optometry, 8 semester hours of graduate clinical research in optometry and 16 semester hours of graduate seminar selected from the following:

- a. Principles of investigation
- b. Contemporary optometric research.
- c. Statistics and measurements
- d. Review of the literature for dissertation problem
- e. A major research problem being investigated by the clinical staff.

Each seminar will be offered as a two hour course per week and will continue throughout two semesters.

The research project to be covered by each candidate must have prior approval from the Director

of the graduate division. The passing minimum grade in all graduate courses will be "B".

## III. Residence requirements.

Each candidate for a degree will be required to complete one school year (two semesters) of residence study at the graduate level at Chicago College of Optometry.

## IV. Dissertation Requirements

Each candidate will be required to write a thesis based on an original research program to be carried out at Chicago College of Optometry. The subject of the thesis must be approved by the Director of the Graduate Program at least three months prior to the date on which the degree is to be awarded. A complete preliminary draft of the thesis must be approved by the research advisor and submitted to the director at least four weeks prior to graduation. Two copies of the completed thesis must be submitted to the director at least two weeks before graduation.

## V. Examination

All candidates for the Master's degree must pass a comprehensive examination. This examination will cover all of the courses in the graduate program as well as the subject matter of the thesis. The examination will be prepared and conducted by a committee consisting of the research advisor and at least two other members of the faculty who are appointed by the graduate director.

Candidates are eligible to take this examination immediately upon the approval of the preliminary draft of the thesis and no later than ten days before graduation. In case of a failure in this examination a re-examination may be held within 30 days. No subsequent examination will be permitted for students who fail the examination a second time.

## VI. FEES

The fees and tuition in the graduate program will be as follows:

Tuition - per semester	\$200.00
Matriculation fee:	20.00
(Not required of OCO graduates)	
Diploma fee	10.00
Laboratory fees:	
Clinical optometry	10.00
per semester	
Clinical optometric research	
per semester	10.00

Each student will be required to equip himself with the following:

Textbooks-approximately	\$25.00
Diagnostic Set	109.00
Trial Case	151.50
Trial Frame	35.00
Supplies-approximately	10.00

The above books, equipment and supplies may be purchased through

# LOOKING BACK

By Robert Golden

As the members of the first graduating class prepare to complete their studies at the college, it is interesting to note how many of its members have been instrumental in making so many of the school's organized functions, and so many of the school's organizations a success.

Many have taken a hand in organizing the student council and in carrying out its important work. To mention only a few, Jack Markow, who is now president of the council, Malcolm Lachman who served as council secretary many semesters, Clifford Van Dulian, who served as president, Robert Beckman and Shirley Ekins, class representatives and the many unnamed Seniors who stood behind their officers with advice and suggestions.

In the publication field there are such Seniors as Leonard Drucker, former Editor of Eyes Right and its present Research Editor, Mc Amato, Erwin Cheskes, Charles Berman to mention only a few who helped get their school paper past the deadline.

We certainly must not forget Arthur Simon who had his hand and his heart in every worthwhile activity the school had to offer. The Seniors were an example of school spirit, other classes should try to emulate.

the College bookstore or elsewhere as the students see fit.

## VII. Curriculum of the Graduate Program for the School Year 1949-1950

Course	Hours		Credit
	Lecture	Lab.	
Graduate Clinical Optometry -			
-	12		4
Clinical Optometry Research (thesis problem)	12		4
Seminar - Review of literature of the thesis problem	2	-	2
Seminar - Contemporary Optometric Research	2	-	2
Seminar - Statistics and Measurement	2	-	2
Seminar - Influence of Refraction on Strabismus	2	-	2
Totals	8	24	16

## Semester II

Continuation of semester one - all courses are two semester sequences

8 24 16



# CAMPUS FRATERNITIES

## BOTH FRATS FETE GRADS

### Omega Epsilon Phi

September 9th, spectacular semi-formal dance given in honor of the graduating seniors of Omega Epsilon Phi, was held at the beautiful Louis XVI room at the Hotel Sherman. Dance music was provided by Irv. Dulcy and his orchestra who is currently touring some of Chicagos best hotels. Members of the faculty and student body attended this, the biggest dance ever to come to Chicago College of Optometry.

The educational committee is planning to have a very important and distinguished guest speaker at the next regular meeting. The committee is making arrangements whereby the Fraternity will have a guest speaker every other meeting night.

### NEW YORK CLUB

The following students are members of the New York Club.

Harry Hakoun, Jr. (President)  
Jerome Swirson (Treasurer)  
Seymour Strickberger (Corresponding Secretary), Burton Blassman, Alvin Freedman, Jack Markow, Seymour Bien, Victor Trager, Irving Elba, Charles Kruger, Nathan Serotoff, Arnold Wolfson, Sheldon Siegel, Vincent Lupica, Robert Orr, Melvin Berl, Jerry Cohn, John Greenwood, James Congdon, Raymond Licker, Maynard Rosefield, Theodore Katz, Gilbert Karnette, Samuel Hoffman, Richard Hughes, Kenneth Gassorth, Irving Grundt, Bernard Weiss, Irving Siegel, Milton Rosenzweig, Harry Levine, Erwin E. Cheskes, Jessie Jeffries, Irwin Robinson

It was decided that the immediate goal of the organization is to gather correct information about the present policy of the State of New York regarding qualifications for entry to the state board examinations. A reference file will be compiled consisting of direct correspondence between this club and responsible individuals in charge of admission to the state board examinations. This file will be open to anyone desiring to get proper information on his status and New York State's present policy.

All men desiring to participate, actively in the achievement of this goal are urged to attend meetings.

### Phi Theta Upsilon

Since last publication, the Committee on Professional Advancement and Education under the chairmanship of Brother Berkheimer has been very active in obtaining speakers to initiate our new series of educational lectures.

The speakers on August 10 were Drs. Gilbert and Snider, who discussed the pros and cons of the private versus intern type of practice and were followed on August 24, by Dr. Frank, of the Chicago College of Optometry clinic staff, who reviewed his thesis "A Comparison of Good and Poor Readers". Dr. Frank presented valuable pointers concerning the incorporation of Remedial Reading techniques into private practice. Both topics were inspiring and very well received.

Outstanding function on our fall social calendar was the semi-formal farewell dance held in the ballroom of the Fraternity House, honoring our graduating brothers. Climax of the evening was the presentation of the coveted Phi Theta Upsilon Awards for Achievement in scholarship, leadership and athletics, won by brothers, Ekins, Dulian and Wyckoff. Immediately following this was the traditional "presentation of the Gavel" to the past-Chancellor. Music for the evening was provided by a trio composed of members of the Lou Breese orchestra, which contributed greatly to the success and pleasure of the evening.

Much interest has been aroused by the meteoric rise of our softball team to their present position in the league. "Nice going boys, - Well done!"

Congratulations to the school Athletic Department on the success of the first annual boat-ride.

We take this opportunity to extend from all the members of Zeta Chapter, Phi Theta Upsilon, our best wishes to the entire graduating class.

To The Members of the First Graduating Class:

May I extend to you my sincerest congratulations upon your graduation from college and entrance into the profession of optometry. It is difficult, if not impossible, to keep a message of this type free from platitudes. Platitudes, however, do serve a useful purpose because their constant repetition can not fail but to drive home the message.

Each of you who goes forth bears a triple responsibility. Your responsibility in being a good upright and honorable citizen and an ethical and professional practitioner of a noble profession is owing not only to the profession of optometry and to your alma mater, but also to yourselves. This is particularly true because each of you is a 'first'. As future classes graduate and as more and more alumni come into existence, there will always be reference to the first graduating class and this reference and recollection will continue for many years until the last one of you is gathered unto his forefathers.

With that knowledge, it is triply incumbent that each of you live and conduct yourself in an exemplary manner. Your chosen field is not an easy one. Optometry is the youngest of the universally accepted health professions. It has been recognized as a profession but its continued acceptance as such depends upon you and those you follow. You have shown courage in entering a field which you know in advance has certain economic disadvantages. It is my earnest hope that this courage and your zeal to serve the public through the medium of your chosen profession will carry you to places of distinction and put you in positions of trust, confidence and leadership in your communities.

Go forth with thanks to your teachers and your college, with faith in your profession, with confidence in yourself and with assurance of the truth of the statement that he best succeeds who serves best.

Good luck and God Speed to each of you in your journey through life.

HAROLD KOHN,  
Counsel for the American  
Optometric Association

### ANNOUNCEMENT: --

THE HOBBY CONTEST UNDER THE SPONSORSHIP OF THE DEPARTMENT OF ACTIVITIES AND PHYSICAL WELFARE WILL BE EXTENDED TO OCTOBER 31st. BEFORE YOU GO ON VACATION, OBTAIN AN ENTRY BLANK FROM THE FRONT OFFICE



# Intelligent Guessing

by Eugene Freeman, Ph.D., F.A.A.O.

Reprinted from: *American Journal of Optometry and Archives of American Academy of Optometry*, February 25, 1945.

It has been said that no one in any other field ever encounters as much sales resistance as a college professor. It is an open scandal that education is bought like castor oil, and seems to be about as hard to take. The student knows that he cannot do without it, but he keeps the bottle tightly corked except in emergencies, and he resists instinctively and effectively every effort that is made by his teachers to increase the quantity and frequency of the dose.

Assuming that such a student is a reasonable person, as he may be, then either he is simply lazy, in which case we are not further concerned with him here, or he is serious-minded about getting his education, but is handicapped because he doesn't quite know what it is that he is trying to get, or what it is supposed to do for him, or how he is supposed to get it. In short, he is handicapped by a set of fundamental misconceptions about the nature and purpose and method of education. Among his misconceptions are the following:

1. That education is something which his teacher can give to him, his own role being that of a purely passive receiver.
2. That there is only a limited amount of room in his mind, so that if he tries to learn too much, something else, which he has already learned will be crowded out.
3. That he is working for the teacher instead of for himself.
4. That in order to solve an intellectual problem, he must have a previously learned formula or rule which he can apply mechanically to get the right answer.
5. That he should never do any guessing except to cover up faulty knowledge.

Guided by his first misconception, the student fills his notebooks with his teacher's words, and by sheer memorizing, soaks up as many of them as the discipline of the class compels him to. He does not realize that the function of a teacher is not merely that of presenting a simplified paraphrase of a text book, but more important, that of being provocative - that his words are meant to be sparks with which to explode a few cells in the student's own brain. It is one of the major tragedies of our educational systems that too often the teacher himself does not realize this. Instead, he encourages his students to revere

him as an oracle and to treasure his wisdom, his most successful students being the ones that are the best parrots.

Some professors, however, are educators rather than merely instructors, in the root senses of these terms, and the average student will probably have had courses from some of them during the time that he is accumulating the credits which he exchanges for his diploma. These men make their students rather unhappy. In a Socratic fashion, they try to unsettle the student's faith in the infallibility of text books and teachers and of the knowledge that he has so painfully acquired from them both. They entreat him to think things through for himself, but they succeed only in baffling and confusing him. In the end, the student finds these educators to be much more provoking than provocative, and he turns with relief to his other instructors who decently enough furnish him with text books and lectures in which are contained exactly the answers that he is held responsible for in their courses.

The implications of his second misconception, that there is a limited amount of room in his mind, and of his third misconception, that he is working primarily for his teacher, overlap considerably. As a result of these misconceptions, he is careful never to "learn" anything unless he is quite sure that it is not doing any more than was specifically required of him. He considers necessary work to be about which questions are asked on his examinations, and assignments become formulas for eliminating all unnecessary work. Having "learned" the facts and formulas of his assignments, he stores them away in separate compartments of his notebooks and his mind, where they are buried until, eventually most of them are lost or forgotten. In the language of Alfred North Whitehead, they remain "inert ideas." These are ideas which, as Whitehead explains, are received into the mind, but are never tested, or combined with any other ideas. Inert ideas do not evoke any curiosity, or judgment, they do not contribute to the mastery of complex circumstances; nor do they afford any aid in furnishing the theory for giving foresight in special cases.

If Whitehead's viewpoint is accepted, it is self-evident that the crucial phase of education begins after the lessons in the text have been learned. It is equally self-evident that a student whose schooling is vitiated by the misconceptions enumerated above will never gain more than a rudimentary and primitive education, inasmuch as his ability to work out independently problems in which his interest is awakened will remain for the most part undeveloped.

The student's fourth misconception, that he must have a formula, or rule which he can apply

mechanically before he can solve an intellectual problem, impels him to place too much reliance on his memory and not enough on his intelligence. Consequently, even where his formulas or his memorized scraps of information are relevant, a slight lapse of his memory may prove to be disastrous. But even more important is his helplessness in a situation where either he has no ready-made formula, or he does not know which one to use. There are no formulas for creating formulas, any more than there are any formulas for determining which formula is relevant for the solution of a given problem. When used intelligently, formulas are convenient for solving problems with a minimum amount of mental exertion - but, like the premises of a syllogism, they do not guarantee their own truth, and can easily become booby traps for the unintelligent.

The student's fifth misconception is that "guessing" is an illegitimate practice which is used to cover up faulty knowledge. As the result of this misconception, he rarely guesses except when he knows that he should not be doing so. Consequently he thinks for himself as little as possible. It is this misconception which is responsible for the most serious aspect of the student's resistance to education - the fostering of a sort of intellectual laziness, which restrains the student from doing any thinking for himself, i.e., any intelligent guessing.

To teach students how to guess intelligently and how to evaluate critically is one of the major purposes of education. It has often been said that the aim of education is to teach students independence of thought, or originality, or how to use facts, or how to think for themselves, or how to think critically, or how to exercise their own judgment, etc.; but none of these aims can ever be achieved by anyone who has not learned how to guess intelligently, and how to criticize his own guesses.

A "guess" is well defined by Funk and Wagnalls as "a swift conclusion from data directly at hand and held as probable or tentative, while one confessedly lacks material for certainty." Concerning matters of fact, guessing can never be anything but stupid. No deficiency in our knowledge of facts can ever be bridged intelligently by guessing. No matter how brilliant a student or an observer may be, he must accept and learn facts exactly as they are given. In the pursuit of truth, it is as deadly a sin to guess about facts as it would be to deliberately misrepresent them. Education, therefore, begins with the faithful and literal learning of facts; and one of the cardinal principles of education is that in the realm of facts, guessing is taboo.

For practical purposes, and particularly for the student who is told to learn "the facts" as

Continued Page 14



## INTELLIGENT GUESSING Concluded from Page 13

the first step in the educational process, we may tentatively acknowledge as a "fact", any statement which is accepted as true by the experts in the appropriate field. As the educational process continues, the student must outgrow this rule of thumb guide, which breaks down when he raises questions concerning the criteria by means of which we can determine what field to go to, or who the experts are in that field, or how we can choose between them when they disagree.

In a broader sense, a fact may be defined as a description of reality which is strictly true. Thus the meaning of factuality is determined by the meaning of truth and reality, and the nature of the knowing process; and a searching investigation of the meaning of "fact" would constitute a system of metaphysics and a theory of epistemology. For the limited purposes of this paper, it will be sufficient to point out that from the point of view of the educator, facts are data which are learned to be true by discovery - either by the senses, or by the mind. Thus there are two broad realms of fact - empirical facts, or knowledge discovered through the senses; and rational facts, or knowledge discovered by the mind (such as the concepts and principles of mathematics).

We have said that education begins with the faithful and literal learning of facts. But it does not stop there. Facts are useless and inert until they are understood, and interpreted, and applied to human experience; and this breathing of life into dead facts is not done by learning more facts. It can be accomplished only by a creative activity of the mind, for which, perhaps because it is so rare, we have no satisfactory name. Such terms as native intelligence, braininess, the power of original thinking, quick wittedness, resourcefulness, "I. Q.," good judgment, etc., have been used to designate the special talent of creativity and originality and judgment possessed by the human mind. The excellence of the development of this special talent can be measured quite accurately by the quality of the intelligence revealed in making guesses, that is, in formulating non-factual judgments based upon facts.

As the great eighteenth century philosopher, Immanuel Kant, pointed out, deficiency in this talent is what we call stupidity: and stupidity is one of the things for which we still have no remedy. Kant remarks that a narrow and stupid mind may be improved by study so far as to become even very learned, and that a teacher may succeed in transplanting into a stupid pupil's understanding plenty of beautiful rules borrowed from the experience of others. But no teacher can implant into a stupid mind a native mental endowment which the pupil does not possess; and a stupid mind, no

matter how learned and crammed with facts and rules it may become, will inevitably betray its inherent deficiency.

Faulty education is responsible for far more learned fools than is defective mental endowment. The "doctores ignorantiae" flourished during the early middle ages when the talent of independent judgment and original creative thinking was discouraged by the authoritarian system of education of the times. During this period, there was no guessing. If a question were asked that had not already been answered by the Church fathers, guided by the divine revelation of Aristotle, the doctores ignorantiae were tongue-tied and silent. Either the answer could be found in the proper text-books or the question itself was disbarred.

The Renaissance marked the rebirth of creative intellectual and spiritual vigor which had lain dormant through the middle ages. It began with a small group of men who were not afraid to guess in order to solve problems whose answers were not given beforehand; and although much of what they did has since been superseded, the method of inquiry which they invented still endures.

In a scientific laboratory, or in the practice of a profession based on the application of the results of science to human problems, facts are given, and rules are given, but the application of the rules to the facts, and the interpretation of the results, are never given beforehand. They are created by a synthetic activity of the mind - the act of judging; and no one pretends that such a creative judgment can ever be wholly free from the hazard of uncertainty. The solution of any non-factual problem is always personal and tentative. In the final analysis, the conclusion is a guess which represents a judgment drawn from an integration of the knowledge and experience of the individual thinker himself - a conclusion which can never be objective and final, but which can be intelligent despite its being a guess. As a matter of fact, education in its deepest sense is primarily the training of the faculty of judgment, by means of which guesses can be formulated and evaluated with the maximum of intelligence.

## CASE HISTORY

Concluded from Col. 3

1. That each practitioner should give every patient a thorough external examination (The condition was very obvious by side view and Munsón's Sign).
2. That mere placing a contact lens on the eye is not a cure-all. It must be painstakingly fitted.
3. That there are still many 'doctors' among us.

## A CASE HISTORY

by Leonard Drucker

The condition *conical cornea* or *Kerataconus* has been covered in many of our courses, but no presentation could have been more vivid than the one witnessed recently by a session of the Contact Lens Laboratory Course.

Dr. Eugene Freeman, thoughtfully brought in a case which dynamically illustrated the value of the contact lens in this particular instance. The case history unfolded as Mr. and Mrs. R. B. of Waterloo, Iowa, told of the events, leading to their visit to Chicago. At the age of 18 Mrs. R. B., the patient, began to notice a slight diminution of vision. As the years went by, her vision in both eyes decreased steadily and repeated changes of glasses brought no improvement. It might be noted that Mrs. R. B. had been to numerous physicians and optometrists, none had made the diagnosis of *Kerataconus*.

Later, contact lenses were suggested and Mrs. R. B. showed us the two pairs, both of which were intolerable. Both pairs were much too small, one of them having been cut down to so small a size that they simulated the pericorneal variety. One practitioner suggested that the condition might be a cataract, so off went the couple to Marshalltown, Iowa, hoping that this might be the cause of her visual failure. It was here at the Wolfe Cataract Clinic, the true condition was diagnosed and Mrs. R. B. was referred to Dr. Freeman for Contact Lenses. The couple came to Chicago seeking Dr. Freeman. Not knowing his exact location, they made several inquiries here in the city. It is noteworthy that the first 'doctor' tried to intercept the couple with promises of glasses as a panacea, even after Mr. R. explained the diagnosis of *Kerataconus* that had been made.

In the laboratory section, we saw Mrs. R. B. shortly after her first fitting. It did not take much to note how completely the patient was rehabilitated. For the first time she had a correct fit and could wear the lenses with comfort. From 3/200 OD and 12/200 OS her vision improved to almost 20/20. No longer did her husband have to lead her. It was not hard to see the patient's gratitude and happiness reflected in her actions, as she walked around the room with new freedom. Only last week Mrs. R. B. reported that her wearing time is from 6-8 hours daily, and the only great discomfort is from the fogging of the lens solution.

In concluding this case, several factors presented themselves:

(Continued in Col. 2)



# A STUDY OF RETINOSCOPY

By Paul Moss

Retinoscopy is an objective method of determining the refractive error of an eye by observing a reflex formed in the pupil of the patient as a result of reflecting a beam of light into the eye.

This pupillary reflex was first noticed by Sir William Bowman in 1859 when investigating conical cornea. It was not until 1873 that a French ophthalmologist, Cuignet, attempted to utilize the reflex movement to determine the refractive error of the eye. This principle was then developed further by Landolt, Parent and Priestley Smith. The various names given to the process were keratoscopy, pupilloscopy, skiascopy and retinoscopy. The last term is the one we shall use, since it has become firmly established in this country.

An instrument for measuring objectively the refractive error of the eye is the retinoscope. The eye under examination comprises the lens system, with the retina as one conjugate point and the observer's pupil the other. If we examine the retinoscope, we see that the instrument acts as a source of light, sending rays of light into the patient's eye. This is designated as the incident light. The illuminated retinal area in turn, acts as a new source of light, sending out rays of light which enter the observer's eye and are considered as emergent rays. When the instrument mirror is moved, the illuminated retinal area will move, and the light reflected from the retina, which appears to be located in the pupil and is called the reflex, will also move. The direction, speed and brightness of the reflex will indicate to the observer the refractive error of the eye under examination, as shall be shown in this discussion.

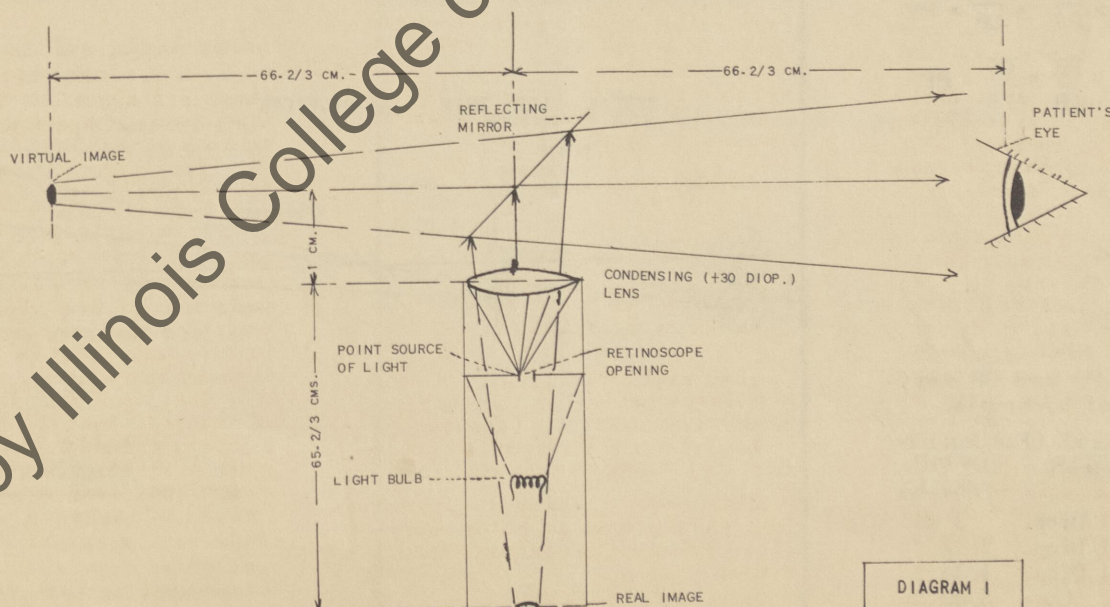
Retinoscopy embraces two main divisions, static and dynamic. In static retinoscopy, the patient's accommodation should be at rest, with fixation directed at a point 20 feet or beyond, while in dynamic retinoscopy, accommodation and convergence are in use, with the target and instrument close to the patient. The principles studied here will apply to either system.

Let us examine the retinoscope in detail. Diagram 1 gives a detailed description of the retinoscope. A light source in the retinoscope sends out rays of light, which pass through the small retinoscope opening. Light emerging from this opening is divergent, and after passing through a powerful condensing lens, loses much of its divergence, but is still divergent slightly. The light strikes a plane reflecting mirror located one cm. from the lens at a 45 degree angle, and is reflected into the eye. The observer's working distance is generally  $\frac{2}{3}$  of a meter (26") from the patient although it may be 20". The patient looking into the mirror actually sees a virtual image  $\frac{2}{3}$  of a meter behind the mirror. The light therefore has a vergence of  $\frac{3}{2}$  diopters as it falls upon the mirror.

The mirror acts as fulcrum, and as the mirror is tilted up, the virtual image, which is the source of light, moves down, while the spot on the retina moves up. Since the mirror is midway between the virtual source and the patient, the spot on the face will equal the size of the source, and the distance moved will be the same. However, the direction of the movement on the face will be opposite that of the virtual source, regardless of the refractive error of the eye. As the light from the retinoscope passes through the lens of the eye, it is rendered convergent. A point of light is formed on the retina if the eye is emmetropic, while a blur circle is formed if the eye is either myopic or hyperopic. This spot or point of light on the retina will always move in the same direction as the mirror. It is this retinal spot which becomes the new source of light in the emergent system.

The rays of light in the emergent system are refracted by the  
(Continued on Page 16)

DIAGRAM OF RETINOSCOPE





## RETINOSCOPY

Continued

lens as they progress outward, and the observer sees an image of the retinal light spot appearing in the plane of the pupil. This is called the reflex, and its appearance and movement tell the observer the condition of the eye. In the case of the hyperope (Diagram 2) the emergent rays are divergent, and the image is virtual and erect, with the light moving in the same direction as the retinoscope mirror. The reciprocal of the distance from the lens in meters where the image is formed behind the eye is the amount of hyperopia in diopters. Wherever S strikes the retina, a new source of light is formed, and the only rays that get out of the eye are those that go out through the pupil. Because of the reversibility of light, light returns to the point from where it originated, and the light that enters the pupil, leaves the same way. As the source moves from S to S<sub>2</sub>, the spot on the face moves from P to F, and the image on the plane conjugate to the retina moves from R to S<sub>2</sub>'. The apparent motion in the pupil is from P to S<sub>2</sub>'.

$$\text{motion of source } SS_2 = \frac{OS}{OP} \times PF$$

$$\text{motion on plane conjugate to retina } RS_2' = \frac{PR}{PS} \times SS_2$$

$$\text{apparent motion in pupil } PS_2'' = \frac{OP}{OR} \times RS_2'$$

For any degree of hyperopia, the apparent motion of the pupillary reflex

$$\begin{aligned} PS_2'' &= \frac{OP}{OR} \times RS_2' \\ &= \frac{OP}{OR} \times \frac{PR}{PS} \times SS_2 \\ &= \frac{OP}{OR} \times \frac{PR}{PS} \times \frac{OS}{OP} \times PF \\ &= \frac{PR}{OR} \times \frac{OS}{PS} \times PF \end{aligned}$$

$$\text{But } OS = -2/3$$

$$PS = -4/3$$

$$\therefore \frac{OS}{PS} = \frac{1}{2} \quad \text{and}$$

$$PS_2'' = \frac{1}{2} \times \frac{PR}{OR} \times PF$$

The distance PR and OR vary with the degree of hyperopia.

	DEGREE OF HYPER.	MOTION OF PUP. REFLEX
Spot on face moves	+1 Diop.	3 mm.
1 cm.	+2 Diop.	2.14 "
and is 1 cm.	+4 Diop.	1.36 "
in diameter.	0 (Emmetropia)	5.00 "

(Continued on Page 17)

DIAGRAM OF HYPEROPIC CONDITION

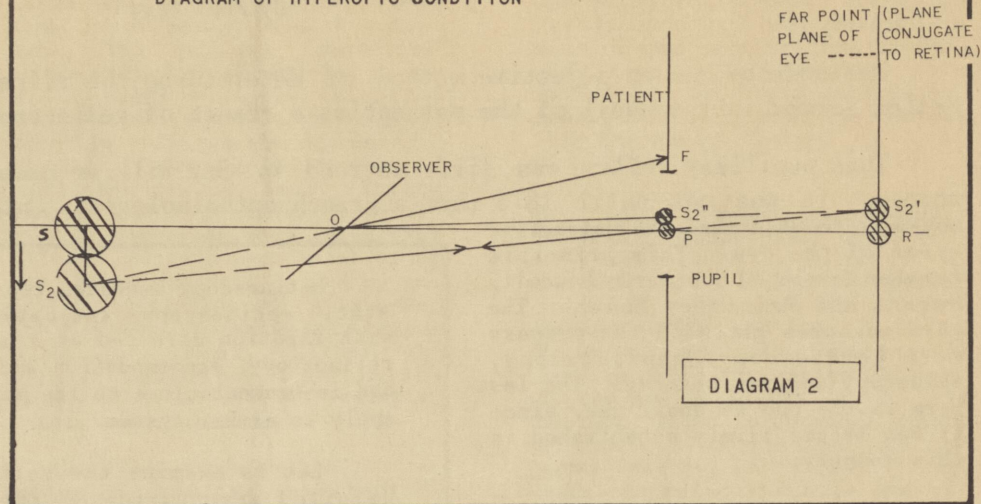


DIAGRAM 2

MYOPIA - GREATER THAN -1.50 DIOPTERS

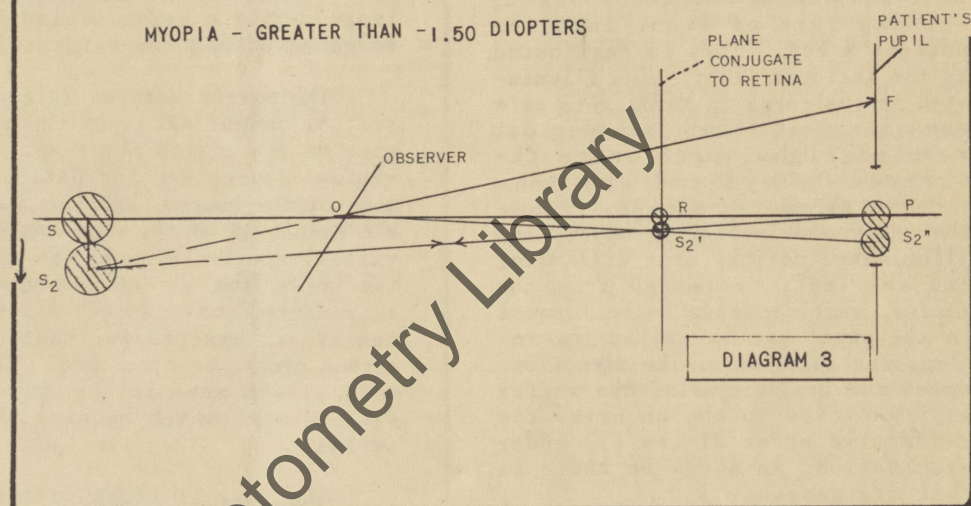


DIAGRAM 3

MYOPIA - LESS THAN -1.50 DIOPTERS

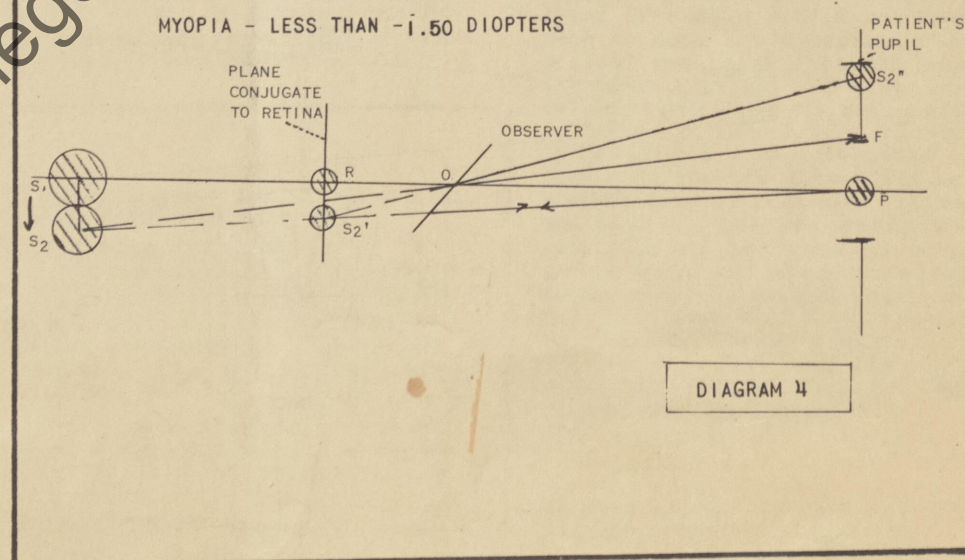


DIAGRAM 4



# RETINOSCOPY

## Continued

Since the motion will be with, by observing the size of the reflex and the degree of motion, the amount of hyperopia can be determined.

Myopia - (greater than -1.50 diopters)

(Diagram 3) The plane conjugate to the retina lies between the patient and the observer. As the object moves from S to S<sub>2</sub>, the spot on the face moves from P to F, and the image on the plane conjugate to the retina moves from R to S<sub>2</sub>'. The apparent motion in the pupil is from P to S<sub>2</sub>', which is opposite to the direction of the spot on the face, and the motion is an against motion.

Myopia (Less than -1.50 diopters)

(Diagram 4) In this case the plane conjugate to the retina lies behind the observer, between the observer and the source. As the source moves from S to S<sub>2</sub>, the spot on the face moves from P to F, and the image on the plane conjugate to the retina moves from R to S<sub>2</sub>'. The apparent motion in the plane of the pupil is from P to S<sub>2</sub>', which is in the same direction as the spot on the face, and the motion is a "with motion". The method of calculation of the size and the apparent motion of the reflex is the same method as that used for hyperopia.

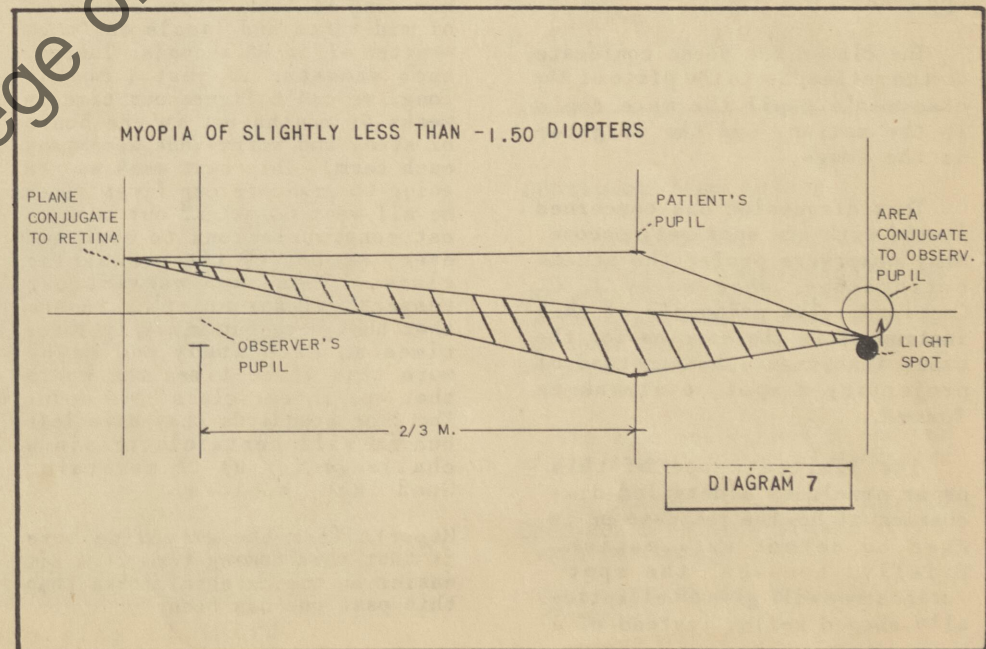
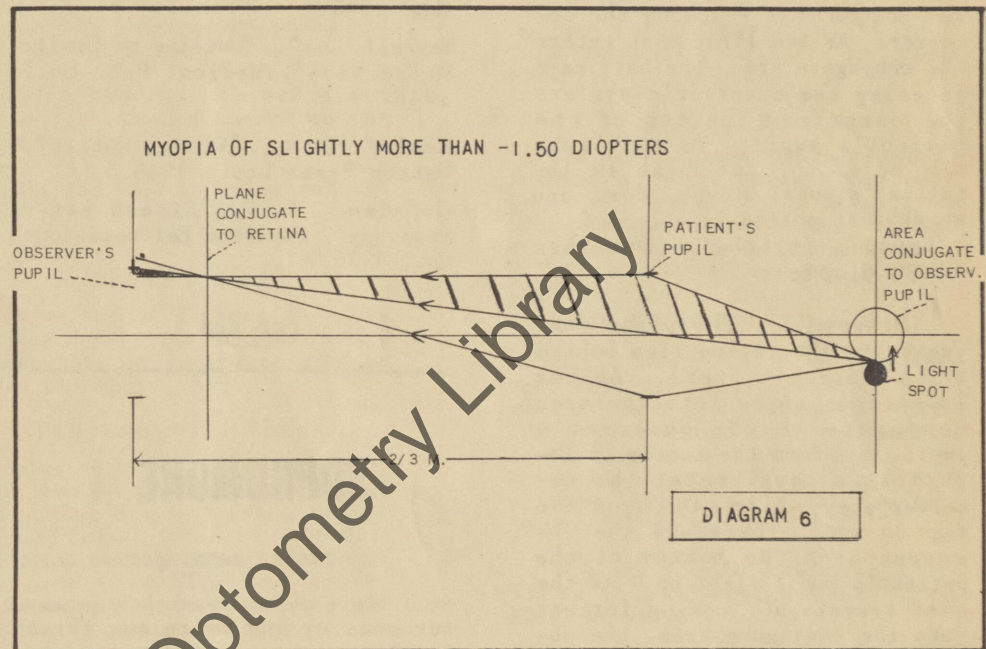
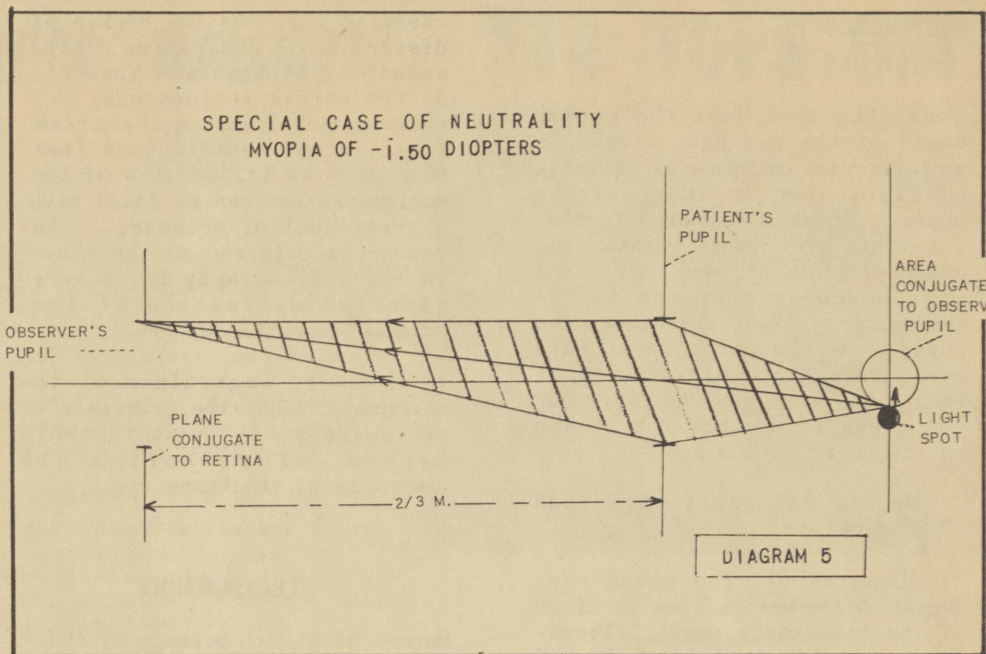
	DEGREE OF MYOPIA	MOTION OF PUP. REFLEX
Stop on face	-1 diop.	+1.5 cms.
moves 1 cm.	-2 diop.	-1.5 cms.
and is 1 cm.	-3 diop.	-5. mms.
in diameter.	-4 diop.	-3. mms.

Myopia (special case at -1.50 diopters, neutrality).

(Diagram 5) The plane conjugate to the retina is 2/3 of a meter from the patient's eye, and coincides with the plane of the observer, and for each point in the area on the plane conjugate to the observer's pupil, there is a corresponding conjugate point in the observer's plane. This is known as neutrality, as the reflex fills the entire pupil, and the observer sees no apparent motion.

Rays entering the eye of the observer are limited by the iris opening or the mirror itself, if it happens to be smaller. Therefore, the area on the plane conjugate to the observer's plane represents the limiting area the retinal light spot must be in order to be seen by the observer, and as the light spot enters this

(Continued on Page 18)





## RETINOSCOPY Continued

area, the rays fill the entire pupil of the patient. There is no difference in degree of intensity of light from any part of the pupil. As the spot moves further into this area, more points send out rays of light, and there is a corresponding increase in the intensity of light throughout the pupil. As the spot leaves this area, there is a diminishing of light, until it finally fades out but there is no apparent motion at any point in the pupil.

Myopia (slightly more than -1.50 diopters)

(Diagram 6) The plane conjugate to the retina lies in front of the observer's pupil. Therefore, the bottom rays from the patient's pupil are the top rays reaching the observer, and the rays from the patient's pupil are the bottom rays reaching the observer. As the light spot enters the conjugate area, the only rays entering the observer's eye are the ones from the top of the patient's pupil. As the light spot moves up, the light in the patient's pupil moves, down, and an against motion is observed.

Myopia (slightly less than -1.50 diopters)

(Diagram 7) The plane conjugate to the retina lies behind the observer's pupil. As the light spot moves into the area conjugate to the observer's pupil, rays from the bottom of the patient's pupil enter the observer's eye, while rays from the top do not. Therefore the observer sees the bottom of the patient's pupil light up. As the spot travels up, moving further into the conjugate area, the observer notices the light also moving up, filling more and more of the eye, and a with motion is apparent.

The closer the plane conjugate to the retina, is to the plane of the observer's pupil the more rapid is the motion, and the brighter is the image.

This discussion has concerned itself with the spot retinoscope. Many observers prefer the streak retinoscope, devised by J. C. Copeland. The principle of this instrument is the same as for the other instrument, but instead of projecting a spot, a streak is formed.

The limited scope of this paper precludes a detailed discussion of how the retinoscope is used to detect astigmatism. Briefly, however, the spot retinoscope will give an elliptically shaped reflex instead of a

circular one, and the degree of distortion is indicative of the amount of astigmatism present. In the streak retinoscope, by rotating and observing the streak, first in one meridian and then 90 degrees to it, the axis of the astigmatic eye can be found with a great deal of accuracy. The reader is referred to the books in the bibliography for a more detailed discussion of the principles outlined here.

However, regardless of the instrument used, the principle of retinoscopy is a most valuable method of measuring the ametropia of the human eye.

\* \* \* \* \*

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THE END

## SOPHOMORE

by Daniel Messinger

"And there you are! Another semester gone by and we're now three eighths along the rocky road to becoming an O.D. It took exactly 30 seconds to write that one sentence, but we all know actually how long it took. Three semesters of mid-terms and finals can't be written off in 30 seconds. Though, each semester is just 4 months long, we can't figure our time in weeks or months-but in the hours of study and worry that accompany each term. This next week we are going to graduate our first class. We all want to extend our heartiest congratulations to each and every member of the graduating class. These men warrant our respect, if for no other reason that they have put in nearly three times as much study and maybe more than three times the worry that we, in our class have done. The fine standards they have left behind will certainly remain a challenge for us to maintain. Good luck, seniors.

Reports from the grapevine have it that this coming term is a bit easier on the cerebral lobes than this past one has been.

One A.M. in physiology, after Dr. Greengard had just thoroughly discussed the ascending colon, transverse colon and descending colon, Mr. Hogan whispered to Ben Feinbaum, "He left out the semi-colon."

Bob Leshne offers a free course in the art of love making to anyone who can tell him whether their cat should be wearing pink or blue. It certainly is confusing, isn't it?

Overheard brother Queen telling a few of the boys this small pun.

A Scotchman, who had a bottle of scotch on his hip, slipped on the icy pavement and fell. Upon arising he felt something wet running down his leg. "I hope it's blood," he said.

Before laying down the pen for this edition I want to leave a few words for the married men in the class. Anytime your bachelor friends tell you how contented and happy they are being single, just let go with this -

"A bachelor is a souvenir of a woman, who found a better one at the last minute."

## B. V. I. Tells About Program

The Better Vision Institute has released information on some of the media used to present the American public with information about progress in scientific eye care.

## Magazine Advertisements

Continuing its policy of many years, the Institute will pound away at public attitudes through the strong educational force of national magazine ads. These ads will appear in such prestige, opinion-molding magazines as the Saturday Evening Post, Ladies' Home Journal, American Magazine, Hygeia, etc., and will use more direct, aggressive forcefulness than ever before. In tune with other Institute activities, they will sing the praises of modern eye-care- the experience, education, training, judgment, and skills of ophthalmic specialists... the research, study, and precision effort of behind-the-scenes scientists. At the same time they will stress the fact that consumer costs of visual services, skills, and products are only slightly higher than in prewar days.



## SPORTS RESUME

By Jacques Weiss

### C.C.O. STARS

#### HELP SET RECORD

"Clint" Cravey, "Tex" Jayroe and "Chuck" LaFont were three of fifteen men chosen to represent "All Star" team in a game between the Champion RIPPERS and the best players participating in the Riis Park District Tournament.

The Game, although not phenomenal, set a record not likely to be broken for many seasons.

The Rippers, already league champs and entrants in the city tourney, won the gruelling game that went 22 innings. They beat the collection of all-stars, 6-5.

It was six hours after the affair began that the winners scored on a squeeze play to win. The Rippers were behind 5-2 in the seventh inning when they scored three times to set up the overtime marathon.

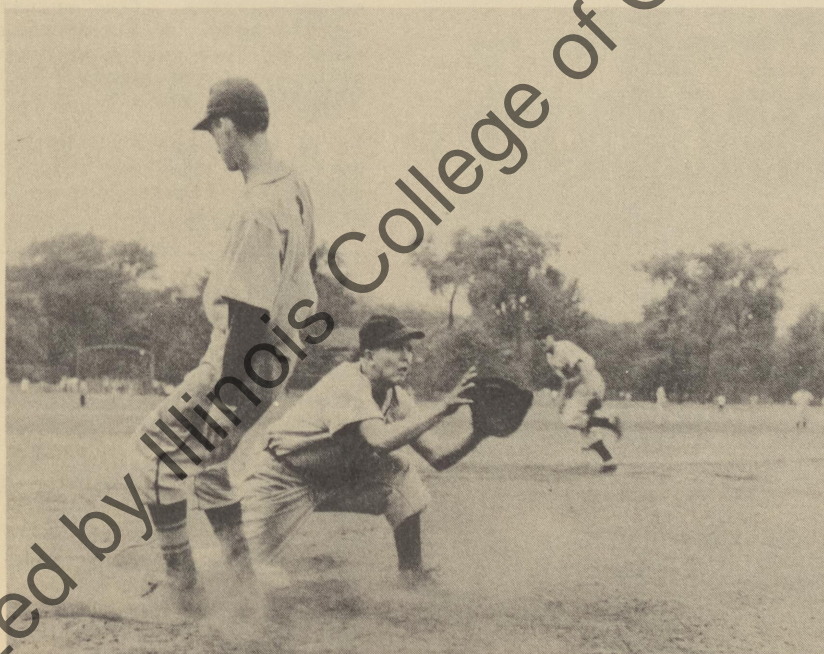
The best play of the game was a sensational "circus" catch by C.C.O.'s "Clint" Cravey.

### NINE BASEBALL LETTERS AWARDED

Nine men received the first letters to be granted by C.C.O. for the participation in Varsity Baseball.

The letters were awarded to nine men whose record shows participation in a minimum number of innings played. The letters were also awarded for the conscientiousness and spirit in which the men conducted themselves.

(Continued Page 20)



TENSE WAITING - Gordon covers play at third

## NICO WALLOPS

### CCO

#### Errors Plentiful as NICO Registers Football Score

Playing the sloppiest brand of baseball to be played on any field in many a season, the CCO nine went down to defeat at the hands of their southside rivals by the merciless score of 26-10.

#### Loses Score First

Aided by several walks, 3 base hits and two displays by the NICO infield, the Northsiders scored 5 runs in the bottom half of the first inning.

#### Errors Costly

The NICO half of the 2d inning proved to be the turning point of the ball game. With 2 men out and baserunners on 2d and 3d, "Clint" Cravey dropped a n easy "pop fly" in center field, allowing two runs to score and the batter reached second on the throw in to the plate. A smashing drive to LaFont, who juggled the ball, permitted the third run of the inning to be scored.

#### Score Tied

By virtue of 2 bases on balls and the collection of 1 hit and 3 errors, the Southsiders tied it up in the third, 5-5.

#### Mises Double Plays

Being in a position to come up with several double plays in the 4th inning and not doing so because of faulty fielding, the Blue and Gold were suddenly aware of the fact that NICO has scored seven unearned runs and now led them by the score of 12-5.

(Continued Col. 3)

## PTU TOPS OEPhi



### MEMBERS OF P.T.U. TEAM

#### Fraternity Wins Play Off 5-2

The Phi Theta Upsilon Fraternity won the first round of the CCO Second Annual Tournament by defeating Omega Epsilon Phi Fraternity by the score of 5-2.

#### Play Off Needed

The play off game was necessary because of a tie between the two teams at the end of the regularly scheduled games, both teams having won 6 and having lost only one. P.T.U.'s only loss being at the hands of Soph II while O.E. Phi's loss was administered by P.T.U.

Bill Duke, P.T.U. pitcher was very effective in limiting O.E. Phi to run in the first and second inning and never was in trouble as his team mate Lawson clouted a grand slam home run off of O.E. Phi's pitcher LaFont in the 5th inning to put PTU in the lead 4-2.

P.T.U. scored again in the fifth to put the game on ice. Final score 5-2.

#### Score by innings

	1	2	3	4	5	6	7	Total
O.E. Phi	1	1	0	0	0	0	0	2
P. T. U.	0	0	0	0	5	0	0	5

#### Concluded from Col. 2

#### Slaughter Continues

Throughout the remainder of the game NICO was not to be denied as they scored 14 more runs in the next three innings while the helpless CCO team were lucky to score 5.

The game was called at the end of the eight because of darkness.

CCO's starting pitcher Irv Golden had to be relieved in the sixth by Cravey.

(See Page 20 for more Sports Pictures)





ALL STARS (Left to Right - Cravey, Jayroe, Lafont)

#### SPORTS RESUME

Concluded from Page 19

Those receiving awards were: C. M. Cravey, M. Ennis, R. Fille, I. Golden, W. Gordon, R. Hedlund, S. Jayroe, C. LaFont, and J. Weiss.



HIT BY JAYROE

#### SOPHOMORE II

Concluded from Page 22

our school, and to the community which they will serve. We're all losing some real friends, and it's quite difficult to say anything except "Good luck to all of you." ....We had all better get a good rest during the coming semester break because when we return as Juniors, it will seem as if our school work has just begun. Have a good vacation and come back prepared to get some real work done. Worth remembering: "Behavior is a mirror in which everyone sees his image."

## JUNIOR I I

by Jerome Swirson

This being the issue dedicated to the first graduating class it is only fitting that we say a few words along that line. It is not necessary for us to say we wish the senior class lots of luck because it is your reporters contention that we of the Junior II all look with pride upon our brothers. The two classes have been so closely related that your reporter knows that most of us feel as though the seniors were taking part of us along with them this September. So on behalf of the class we say may God speed you men on your way to fame.

Getting back to our class news now we find that rumors have it that Irving "Gregory" Siegel is in love, and could it be the same for Ernie Allen. Well if so, good luck to you both. As a man of three months experience we say it's wonderful.....To the office of this paper comes the news that one of our brothers Burton Fine is in the hospital, we all wish him a speedy recovery and hope he'll rush back to school.....Bob Huntington and Raymond Hudash have been chosen by the class to represent them, only this time it's to be new clinic staff representatives.....Congratulations to the class young'un Teddy Katz for recently taking over Dr. Michaels lecture and doing what most of us think was a pretty swell job..... Welcome back to Artie Percy from a short illness, taking over his job of class sleeper is now known to be Irv Golden.....And to Rolfs we say reading those books on that unmentionable subject about human beings can also pervert you..... The poor showing of our class this season for the baseball tournament is really shameful, a lot of time goes into making up a schedule and the least we as a class can do is to play.

#### SENIOR I

Concluded from Page 22

Dr. Katz' method. Now Walter says he is going to settle this controversy once and for all and determine which is the best method. He is going to wear the O.E.P. lens over his right eye and Dr. Katz' lens over his left eye, and see which eye feels better. We're all dying to hear the results, Walter.

Toshini Ogawa is not sure which is the worst evil -- flunking an exam or inviting Strickberger over to his apartment to help him study. The last time Seymour was there he studied for 15 minutes and ate and drank Ogawa's food and beverages for 3 hours. Now Toshini says:

Ogawa, like Hubbard,  
Went to his cupboard  
For something to quench his  
friend's thirst,  
But when he got there  
His cupboard was bare  
For Seymour had gotten there  
first.

## FRESHMAN I

by John Greenwood

Now that this first semester is about to terminate, let us strive for the remaining seven, so as to complete our outer rings.

The Freshman I Class wishes to extend its congratulations to all graduating Seniors. May they be successful in their future practices.

Calculations show that if the whole class cheats in an examination, but cannot do so in another examination, the ratio will be constant. So, why cheat?

And here are some items of local news: -

Dr. Tobolski asked Peter Spyropoulos "Where is my cigarette lighter?". Ans. "I know that Bill Geisler pawned somebody's lighter to buy a ticket for the boat ride and has been keeping same as a souvenir in his pocket ever since."

Intelligent Miss Yocas, who adores those A's on her uncorrected test papers, has decided to leave examination rooms 10 minutes after admission. She presumably believes that variety is the spice of life, but some students consider her a 'Mental Wizard'.

Richard Oresky, the short fellow with the glasses, who always sits in the first row in the Chemistry Class and asks only 1 dozen good questions every period, expects a 110 average in that subject. According to public opinion he deserves only a 99.

In case anybody in class decides to commit suicide on account of his low marks, he is requested to contact WILSON THE EMBALMER for early reservations.

It seems that a number of fellows are going home for the holidays to get married. (The writer, being a bachelor, was wondering what these fellows must have done to be sentenced to matrimony.) Anyway, GOOD LUCK to you all.

It is hoped that all of us will have as well time and a lot of fun during the forthcoming well deserved vacation.

#### FRESHMAN II

Concluded from Page 22

their dates now that the free Grant Park Concerts are over....Are Cub scouts really watching Gordon Lawson's pitching?

The Fresh II dance was the last affair of the term for us, and it was a good way to finish it up, too. Thank you, everybody who helped make it a success.

Let's pitch into those finals, fellows (and Mrs. Litz) and we'll see you all next term.

HAPPY VACATIONING!!!!



# CLASS NEWS

## SENIOR II

by C. V. Dulian

At last the first senior class of CCC is being graduated and be assured the boys are very happy about it. Congratulations to all and may their futures be a success.

Your reporter asked the following question of the Senior II class:

What does graduation mean to you?

John Christakos..state board exams.

Roscoe Rose..graduation to me means the fulfillment of a hope and a desire and the beginning of many new ones.

J. Paul Barchfield..Graduation is looked upon by some as something ending: I prefer to look upon it as the beginning of something. That something being a new life, a professional life, a good life.

Malcolm Lachman..To me graduation means no more Chicago winters. I'll take mine in sunny Hawaii from now on.

Elton J. Gumbel.."Graduation" just a stepping stone.

Fred Beckman..Graduation means, "To get back to God's country, 'Texas'".

Milton Vlies..graduation to me means the end of rolling out of bed at quarter to 9 and racing 1 block to school.

Shepherd..I have enjoyed school very much; but, "what a relief"

Purcell..Graduation to me means getting out of a warm pleasant surroundings into a cold cruel world.

Robert Beckman..Graduation to me is another step closer to the type of work I enjoy.

Force.."Only the beginning."

Jack Morgan and Wallace A Grimes. Graduation means to get out of the wilderness and back to civilization (Texas).

Stevens.."Ditto".

Arthur Simon..Graduation time means the ending of a wonderful chapter in my life, and the beginning of a new and exciting venture.

Abe Perlmuter: Graduation means, an end to a life of formal education and the beginning of a new career of serious informal learning - It also means the beginning of a starvation period.

Brandon Leetz - Graduation means to me leaving some very fine friends I have made during my school years.

Jim Von Bargaen..Graduation means to me the ending of my morning "siestas", free lunch at Dorf's and "Class Meetings".

Dorf..Graduation means to me to go to work".

ing..graduation opportunity to a beneficial

### TO THE GRADUATES

by Dr. Gilbert Lee Hicks,  
Dean Emeritus

A profession may be defined as 'A group of trained individuals united for service to others'

The graduates of the first class of Chicago College of Optometry are to be congratulated upon their choice of a life career, and upon their opportunity, in these present days to render real service to patients; and not only to patients, but to the profession of Optometry as well. To render such service is a source of personal satisfaction and is your duty as well.

Optometry, as it is practiced today, presents more of an opportunity than ever before to give real service to those who entrust their eyesight and its care to you, and also give a better opportunity than in the past to serve the profession itself.

Modern instruments, modern technique and analysis, visual training and contact lenses were undreamed of only a short time ago. During your training you have taken them and other new discoveries for granted, and they are a part of your education. Such training, being yours, the profession now expects you to become leaders in the field of Optometry; to prove the worth, or the lack of value in new instruments, methods of analysis, and treatments; to keep accurate case records, and to study and report to others any new concept which such study creates in your mind. This is 'Research Work', and our young profession, although doing much in research today, has need of your co-operation.

State laws regulating the practice of Optometry are being modified from year to year to bring your profession to a higher plane. Here again you have the opportunity to serve; - to be behind every move which will bring dignity and respect to all engaged in this work; to feel that you have a real part in the progress of your chosen line of endeavor.

These duties we expect you to assume. For new honors always bring new responsibilities. And with your doctorate you will assume responsibility to your patients; responsibility to your profession; and responsibility to the conscientious approval of your conduct. Such responsibilities, accepted and discharged, will result not only in a deep personal satisfaction, but in honor to yourselves, to your school, and to your profession.

The balance of the graduates indicate "Phew" Glad its over.

Your reporter wishes all the very best and success in your state boards. It has been a pleasure and honor to be your class reporter.

Au Revoir!

## JUNIOR I

by Harry Sirota

The Jr. 1 class congratulates Marv Wides on his betrothal to a very lovely and vivacious gal. They say a fine celebration was held. We should know or should we? (Hic!!)

Our distinguished President P. K. Reed decided one day that the conventional names applied to the various parts of the eye were a bit outmoded so with the aid of some fellow students he diagrammed and labeled the new schematic eye. A brief resume' of the nomenclature is as follows:

Tennant's Capsule Orra Sirota  
Cooper's 'Double Cut' Aptical Oxid  
Schlemiel's Canal Zonule of Sin  
Tobolski's Tubule Nudnick's Nodule  
Angle of Antonakes

And not to forget the various topographical punts.

To top it off Dr. Kurtz entered the room where this was done, noted and exclaimed, "My, My, Optometry is getting mighty complicated."

While we are on the subject, a Jr. 11 student by the name of Gil Karnette defined the Canal of Schlemm as the ring around the Rosie located at the corneal-jungle. Ye gads, the man has been studying too hard.

Wherever you go, you hear the phrase, "Money talks." I don't know who said it, but it was stated, "The trouble is you can't hold onto it long enough to start a conversation with it."

A word of advice- If your girl refuses to disclose her age, just test her amplitude of accommodation and refer back to Donder's table. It's a sure thing.

What's this we hear about a certain G.O. instructor calling a student by his first name? Is it true Alvin F.?? (F. not standing for focal point, either)

It seems as though the term has just started and if we take a gander at the Varga girl on the wall we notice just a bit below her on the calendar which shows that there are very few days left until final examinations. If you haven't started already, start cracking those books now!!

Flash! Congratulations are due none other but Jules Echelman and his wife, Marian who have taken the big step, Saturday, Aug. 20.

In closing we the Jr. 1 class extend our hardest felicitations to the graduating Senior Class and wish them all the luck in the future.



## SENIOR I

By Barnett D. Plotkin

It sure feels good to see the Senior II's on the threshold of graduation. Not that we like to see you go, fellows, but now we shall be elevated to the position of honor.

We couldn't believe our eyes when we saw William Bradshaw walking nonchalantly into the ladies' room in the Clinic one hot day. We thought, perhaps, that the heat had gotten him. However, anxious inquiries revealed that Bill had been soft soaping Dr. Held and in return she gave Bill a bucket of soft soap and had him fill the soap dispensers in the rest rooms.

Sam Hoffman's 7 8.00 diopter lenses which he wears, certainly do more than just help his vision. When he has no matches, Sam focuses the rays of the sun on a cigarette with his glasses, and lo and behold, he has a light. That is the first time I ever heard of wearing a cigarette lighter on your face.

A certain checker in the clinic was amazed when he passed Seymour Strickberger's booth and saw him in the process of undressing his patient. The checker blinked his eyes a few times and demanded to know what Friend Seymour was doing, whereupon our noble classmate replied, "Well, it says right here on the clinic form to take the patient's naked V.A."

Since the new clinic has been opened and our class has to travel from the old building on Larrabre Street to the new place on Clark, the boys in our class with cars, (Bremer, Hughes, Sekey, and yours truly) have been trying to rig up taxi meters. After all, a guy has to make an honest living. P.S. - My prices are the lowest in the class, Boys.

Walter Zanozik had himself refracted and found that by using O.E.P. analysis he got a different prescription than when he analyzed his case according to

(Continued Page 20)

## FRESHMAN II

by Walter Zinn

Hats off to our prexy Jim Proctor. He did a swell job of putting our recent beach party across. Those who attended had a great time, and there was enough beer to keep several members of the class floating through Sunday. Things finally got warm enough so that two future doctors went swimming in the Lake - with the help of twelve strong hands. Both Messrs. Gertz and Moore were present, but a conspicuous hole was left by the absence of a certain instructor, not to mention his many disappointed "fans".

The stork stopped off at Sconyer's place and delivered a 6 lb. 8 oz. girl... Linda Susan is the name. Congrats!

Bob Goodside reports that he has phone numbers of Chicago females on file, and he is willing to give these numbers to anyone interested!!!???

LOST & FOUND... Bernie Koenig had made arrangements to hitch a ride to New York in a navy plane one weekend. The navy airfield is supposedly located in Decatur, Illinois. Bright and early Friday morning (5 A.M.) he hopped a Greyhound to Decatur, and asked directions on how to get to the airport. He asked everyone from cop to cab driver to phone operator, but no airport. After a weary day of searching he returned home Friday night, tired and defeated. Isn't it amazing what camouflage will do?

INCIDENTAL INTELLIGENCE... St. Germain is looking for a girl to get married to. His qualifications: "Any girl who will have me."..... The odds were 8:5 that Mr. Patlack would not make New York in his Crosley unless he hitched it to a truck. ... Doc Tobolski is looking for an interpreter to explain Taub's term paper.... Which enterprising student is going to publish Doc Trauermer's chem notes, and sell them to Fresh I?.... The boys are wondering where to take

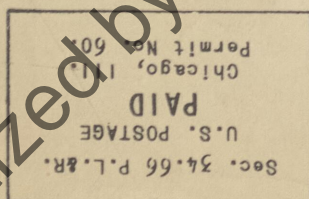
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## SOPHOMORE I I

by Burt Blassman

It seems as if we completed our mid terms just yesterday, and here we are now with finals upon us. Well, all we've got to do is sweat through these coming exams and we'll all be juniors next semester. When we say sweat, we're quite serious, because Room 101 on a hot day is certainly better than any Turkish Bath in town. .... Well, it finally happened! After a long, hard summer at every golf course in town, Ralph Weiss and Earl Torell managed to break 100 at Edgebrook, shooting 99 and 95 respectively. Rumors have it that Earl is thinking of turning pro very shortly, but personally, we doubt it... Trying hard and completing the foursome are Bernie Lovitt and Frank Uriyu. Better luck next summer boys..... One of our classmates, Frank Sweer, was suddenly stricken ill, and was forced to retire from school right before midterm examinations. At present, he is recuperating at his home in Pittsburgh with the hope of returning to school next semester. We are sure the whole class joins us in wishing Frank a very speedy and thorough recovery. .... Dick Martin can now occasionally be seen with his own cigarettes in his pocket. What brought on the sudden change in policy, Dick?.... Students at COO were astounded the other day to see Wally Siff come to school with a clean shave. He looked good too! We're not jealous though, because some day our horse will come in and we'll be able to afford a new razor blade.... Congratulations to Fred Aste, Ken Buhr, Ernie Reyes, Russel Hughes, John Condon, Don Tombaugh, Earl Torell, Bernard Gottlieb, Arne Thedell, and Ralph Weiss, who under the leadership of Don Berend are really playing a wonderful game of softball for our class. Thanks for the sincere interest, boys, and keep up the good work.... Our school is offering a fine group of men to the service of optometry at the close of this semester and I know that they will all be a credit to themselves,

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